CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 10, 1909.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File.... 187
List of Contracts Pending..... 187
Railways 187
Electric Railways 188
Light and Power Plants..... 188
Bridges 189
Buildings 189
Water Supply and Irrigation..... 190
Sewerage 191
Streets and Roads..... 191
Manufacturing Plants 192
Miscellaneous Contracts 192
U. S. Possessions and Cuba..... 193
Contract Prices 193
EXAMINATIONS 193
INDUSTRIAL NOTES 193
TRADE PUBLICATIONS. 194
PROPOSALS 194

CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
6-11*Heating, etc....Lead, S. Dak.	(P. & S.)	5-27
6-15*Dredging, New Haven, Conn..	(S.)	5-27
6-19 Dikes, Vallejo, Cal.	(S.)	5-13
6-19 Boiler-house, Phila, Pa.....	(S)	6-10
6-21 Water disposal plant, North Chicago, Ill	(S.)	6- 3
6-26 Turbo-alternators, New York	(S.)	5-27
6-26 Crane, Norfolk, Va.....	(S.)	6- 3
6-26 Elec. equip., Phila, Pa.....	(S.)	6- 3
6-26 Boilers, etc., Vallejo, Cal.	(S.)	5-20
6-26 Power plant piping, Boston, Mass.	(S.)	5-27
6-26 Air compressors, Wash., D. C.	(S.)	5-27

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

6-14 Elec. equip, New York..... 6- 3
6-14 Cable, Boston, Mass..... 6- 3
6-15 Lighting, Ft. Totten, N. Y.... 5-27
6-15 Lighting, Ft. Hamilton, N. Y... 5-27
6-15 Fixtures, New Orleans, La..... 6- 3
6-15 Heating plant, Crawfordsville, Ind. 6- 3
6-15 Power plant, Ft. Leavenworth, Kan. 5-27
6-19*Gas holder, Kingston, Ont..... 5-27
6-19 Lighting, Evansville, Ind..... 6- 3
6-21*Heating plant, Ft. Sill, Okla..... 5-27
6-21*Light fixtures, West Point, N. Y. 6- 3
6-21 Lighting, Bridgeport, Ohio 6-10
6-21 Electric equipment, New York.. 6-10
6-23*Light plant, Delphos, Kan..... 6-10
6-26 Elec. equip., Philadelphia, Pa.... 6- 3
6-26 Turbo-alternators, New York.... 5-27
6-26 Power plant, Boston, Mass..... 5-27
6-26 Power equip., Bremerton, Wash.. 5-27
6-26 Boilers, etc., Vallejo, Cal..... 5-20
6-30*Conduit, Toronto, Ont 6-10
7- 1*Lighting, Boston, Mass. 5- 6
8- 2*Generating station, Winnipeg, Man. 6-10

BRIDGES.

6-10 Bridge, Mankato, Minn..... 6-10
6-12 Bridge, Marietta, Ohio 6-10
6-12 Bridge, Greenville, Ohio 6- 3
6-14 Culverts, Indianapolis, Ind..... 6- 3
6-14 Bridge work, Brookville, Pa 6-10
6-15 Superstructure, Norwalk, Ohio. 6-10
6-15 Bridge piling, Minot, N. Dak.... 6- 3
6-15*Bridge work, Philadelphia, Pa.. 5-20
6-17 Bridge repair, New York..... 5-27
6-17*Bridges, Philadelphia, Pa..... 6- 3
6-17 Bridge work, New York 6-10
6-18*Bridge, etc., Holyoke, Mass.... 6-10
6-18 Bridge, Cincinnati, Ohio..... 5-27
6-19 Concrete arch, Lima, Ohio..... 6- 3
6-20*Bridge, Portland, Ore..... 6- 3
6-22 Bridges, Dickinson, N. Dak.... 6- 3
6-22 Overhead crossing, Cleveland, Ohio 6- 3
6-24 Bridge, San Jose, Cal..... 6-10
6-26 Bridge work, Cleveland, Ohio .. 6-10
6-26*Superstructure, Las Animas, Colo. 6-10
6-29 Substructure, etc., Marietta, O.. 6-10
7- 1 Bridge, Toledo, Ohio..... 4-29
7- 3 Bridge, Piggott, Ark 6-10
7-10 Bridge, Hailey, Idaho..... 5-20

BUILDINGS.

6-11*Heating, etc., Lead, S. Dak.... 5-27
6-14 Schools, New York..... 6- 3
6-14 School, Williamsburg, Ind..... 6- 3
6-14 Hospital, Ft. Leavenworth, Kan... 6-10
6-15 Hospital, Sonyea, N. Y..... 6-10
6-15 Normal School, Geneseo, N. Y... 6-10
6-15 Cells, Tacoma, Wash 6-10
6-15 Hospital, Ft. Benj. Harrison, Ind. 6-10
6-15 Refrigerating, Delaware, Ohio, (Mfg. Pl.) 6- 3
6-15 School, Alexandria, La..... 5-13
6-15 Post-office, Mayfield, Ky..... 5-13
6-15 School, Montgomery, Ala..... 5-13
6-15 Laundry, New York..(Mfg. Pl.) 6- 3
6-15*Post-office, London, Ky..... 5-20
6-15 Screens, Ft. Dupont, Del..... 6-10
6-15 Soldiers' Home, La Fayette, Ind.. 6- 3
6-15 Quarters, Ft. Dade, Fla 6-10
6-15 Boiler house, Philadelphia, Pa.. 6-10
6-19 Buildings, Carthage, Ohio..... 5-27
6-21 Post-office, Gulfport, Miss..... 5-27
6-21 Schools, New York 6-10
6-23 Struc. steel, Leavenworth, Kan.. 6-10
[illegible] Atlanta, Ga 6-10
6-28*Interior work, San Francisco, Cal. 5-27
6-29 Post-office, Clarinda, Iowa..... 6-13
6-29 Brick, Atlanta, Ga..... 6-10
6-30*Post-office, Moscow, Idaho..... 5-27
6-30*Quarters, Ft. Monroe, Va..... 6- 3
6-31 Masonic temple, Athens, Ohio.... 5-20
7-12*Post-office, Winchester, Va.... 6-10
7-15*Buildings, China (Foreign)..... 5-27
7-15*Post-office, etc., Newbern, N. C. 6-10
7-16*Post-office, Corsicana, Tex..... 6- 3

WATER-WORKS.

6-11 Filter-house, Plattsburg Barracks, N. Y..... 5-27
6-11 Water-works, St. Edward, Neb.. 5-27
6-12 Reservoir, Ft. Yellowstone, Wyo. 6-10
6-12 Water-works, Mt. Healthy, Ohio. 6- 3
6-14 Water-works, Plainville, Kan... 5-27
6-14*Pumps, etc., Peterborough, Ont.. 5-13
6-14 Canal, etc., Porto Rico (U. S. Possess.) 5-13
6-14 Water-works, Sunnyside, Wash. 6-10
6-14 Water system, Vermillion, S. D. 6-10
6-15 Water-works, Kennard, Neb.... 6-10
6-15 Water-works, Persia, Iowa..... 6-10
6-15 Fire-pump, etc., Governor's Island, N. Y 6-10
6-15*Pipe, etc., Cheyenne, Wyo..... 5-27
6-15*Pipe, etc., Okemah, Okla..... 5-27
6-16 Water-works, Clovis, N. Mex.... 6- 3
6-16 Pump-house, etc., Fort Hunt..... 6- 3
6-16 Water mains, New York..... 6- 3
6-16 Reservoir, Eau Claire, Wis.... 6-10
6-16 Well-screens, etc., Camden, N. J. 6-10
6-17*Filters, etc., Cohoes, N. Y..... 6- 3
6-21 Water disposal plants, North Chicago, Ill. 6- 3
6-21*Water-works, Carmen, Okla..... 6- 3
6-21 Filtration plant, Fort Collins, Colo..... 6-10
6-21 Stand-pipes, Chicago, Ill..... 6-10
6-22*Relining reservoir, etc., Reading, Pa. 6- 3
6-23 Mains, Brooklyn, N. Y..... 6-10
6-29 Reservoir, Barre, Vt..... 6-10
6-29 Tank, etc., Newman, Ohio..... 6-10
6-30*Quarters, Ft. Monroe, Va..... 6- 3
7- 1*Valves, hydrants, Manila..... 5- 6
7- 2*Dams, etc., Fort Meade, S. Dak. 6- 3
7-10*Wasteway, Sunnyside, Wash..... 5-27

SEWERS.

6-12 Sewers, Harvard, Ill 6-10
6-14 Sewers, Kingfisher, Okla 6-10
6-14 Sewers, Waterloo, Iowa 6-10
6-14*Sewers, Wash., D. C..... 5-27
6-15 Pipe sewer, Plymouth, Wis. 5-20
6-15 Sewer system, Manhattan, Kan.. 6- 3
6-15*Sewer bonds, Newton, Va..... 6- 3
6-15 Sewer system, St. Paul, Minn... 6-10
6-15*Disposal works, Auburn, N. Y. 6-10
6-15 Sewer, New London, Wis..... 6-10
6-15*Sewer, Dorranceton, Pa..... 6-10
6-15 Sewers, New York 6-10
6-16 Sewers, New York 6- 3
6-18 Sewer, South Bend, Ind..... 6- 3
6-18*Sewer, Louisville, Ky..... 6- 3
6-19 Sewer, Roanoke, Va..... 6-10
6-20 Sewers, Struthers, Ohio..... 6-10
6-21*Sewers, Indiana, Pa..... 6-10
6-22 Sewers, Norwich, N. Y..... 6-10
6-23 Disposal plant, Mount Kisco, N.Y. 6-10
6-25 Sewers, Aberdeen, S. Dak..... 6-10
6-25*Sewer, Louisville, Ky..... 6- 3
6-28 Sewer, Oswego, N. Y..... 6-10
6-28*Sewers, Westfield, N. J..... 6-10
6-29 Sewers, etc., Ridgewood, N. J... 6-10
6-29 Pumping station, Jackson, Ohio. 6-10
7- 2*Sewer, Louisville, Ky..... 6- 3
7-10*Sewers, Albuquerque, N. Mex.... 5-27

STREETS AND ROADS.

6-11 Road impvt., Pittsburg, Pa..... 6- 3
6-11*Highways, Baltimore, Md..... 6- 3
6-11 Tarvia, Cincinnati, Ohio..... 5-27
6-11 Macadam, Rockville, Md..... 6-10
6-11 Grading, etc., St. Clairsville, O. 6-10
6-12*Grading, etc., Somerville, N. J. 5-27
6-12 Paving, Fond du Lac, Wis..... 6-10
6-12 Pavement, etc., East Lake, Ala.. 6-10
6-13*Roads, etc., Ridgefield Park, N. J. 6- 3
6-14 Regulating, etc., New York..... 6- 3
6-14 Grading, etc., Arlington, Va.... 6- 3
6-14 Street improvement, Norwood, O. 6-10
6-14 Paving, Neenah, Wis 6-10
6-14 Grading, etc., Houghton, Mich. 6-10
6-14 Grading, etc., Olympia, Wash.. 6-10
6-14*Pavements, etc., Ashland, Ky.. 6-10
6-15 Paving, Amsterdam, N. Y..... 6-10
6-15 Grading, etc., Greensburgh, N. Y. 6- 3
6-15 Grading, etc., Mount Pleasant, Pa 6- 3
6-15 Paving, Manistee, Mich..... 6- 3
6-15 Street impvt., St. Louis, Mo.... 6- 3
6-15 Road, Terre Haute, Ind..... 6- 3
6-15*Grading, etc., Havre de Grace, Md. 5-27
6-15 Grading, etc., Piqua, Ohio..... 5-20
6-15 Paving, etc., New York..... 6- 3
6-16 Regulating, etc., Brooklyn, N. Y. 6- 3
6-16 Grading, etc., Cleveland, Ohio... 6- 3
6-16 Regulating, etc., Long Island City, N. Y. 6-10
6-17*Grading, etc., Northport, N. Y. 6-10
6-17 Macadam, Concord, N. H..... 6-10
6-17 Gravel, New York 6-10
6-18 Grading, etc., Lorain, Ohio 6-10
6-18 Grading etc., Columbus, Ohio.... 6- 3
6-18 Paving, South Bend, Ind..... 6- 3
6-19*Grading, etc., Washington, D. C. 6-10
6-21*Surfacing, etc., Boston, Mass.... 6-10
6-22*Excavation, etc., Ft Totten, N. Y. 6- 3
6-23 Paving, Wellington, Kan..... 6-10
6-23 Regulating, etc., Brooklyn, N. Y. 6-10
6-24 Grading, etc., Kimball, Mich.... 6-10
6-25 Paving, Bradentown, Fla..... 6-10
6-25*Roads, etc., Ft. Dupont, Del.... 6- 3
6-26 Sidewalk, Madison, Ind..... 6- 3
6-28*Macadamizing, etc., Hackensack, N. J. 6-10

MISCELLANEOUS.

6-11 Dredging, Chicago, Ill..... 5-27
6-12 Wharf, Washington, D. C..... 6-10
6-14 Dredging, San Francisco, Cal... 6-10
6-14 Vessel, Seattle, Wash..... 6-10
6-14*Canal, Porto Rico (U. S. Poss.).. 5- 6
6-14 Garbage privilege, New York.... 6- 3
6-14 Wall, Washington, D. C..... 6- 3
6-15 'Phone line, Govan, Sask 6- 3
6-15*Dredging, New London, Conn.... 6- 3
6-15*Light system, Ft. Totten, N. Y.. 5-20
6-15 Steamers, Wash., D. C..... 5-27
6-15 Dump, etc., New York..... 6-10
6-16 Drainage, Tenafly, N. J..... 6-10
6-16 River bank protection, Galveston, Tex. 6-10
6-16 Fire hose, New York..... 6-10
6-16 Dredging, Brooklyn, N. Y..... 6-10
6-16*Abutment, piers, etc., Wheeling, W. Va. 5-20
6-16*Light station, Wilmington, Del.. 5-20
6-16 Tower, Wilmington, Del..... 6- 3
6-17 Iron fences, New York, N. Y.... 6-10
6-17 Ditches, Orlando, Fla..... 6-10
6-17 Playground, Brooklyn, N. Y..... 6- 3
6-19 Dikes, Vallejo, Cal..... 5-13
6-19 Dredging, etc., Norfolk, Va..... 6-10
6-19*Machinery, Panama 6-10
6-21*Cement, Cincinnati, Ohio..... 5-27
6-21 Levee, Memphis, Tenn..... 6- 3
6-21 Landing platform, New York.... 6-10
6-22 River improvements, Lorain, Ohio..... 6-10
6-22 Ferry steamer, Wash., D. C..... 6- 3
6-22 Retaining walls, New York..... 5-27
6-22*Barge Canal, Albany, N. Y..... 5-27
6-24*Dredging, New York 5-27
6-25*Seawall, New York..... 5-27
6-26 Air compressors, Wash., D. C.... 5-27
6-26*Steel bars, cement..Porto Rico. 6- 3
6-26 Crane, Norfolk, Va..... 6- 3
6-28*Dredging, Port Chester, N. Y.... 5-27
6-28*Causeway, Galveston, Tex..... 5- 6
6-28 Dredging, Wheeling, W. Va.... 6-10
6-29*Dredging, Newport, R. I..... 6- 3
6-29*Supplies, Panama 5-27
7- 1*Valves, etc., Panama..... 6- 3
7- 1 Metal lockers, Chicago, Ill..... 6-10
7- 2 Dredging, Washington, D. C..... 6-10
7- 9 Drilling machines, Transvaal (Foreign) 5-27

EXAMINATIONS.

6-19 Statistician and leveler, Albany, N. Y. 6-10
6-21 Civil engineer, etc., Washington, D. C. 6-10
6-26 Inspector, Albany, N. Y..... 6-10
6-26 Supt. construction, Albany, N.Y. 6-10
6-30 Timber cruiser, Washington, D. C. 6-10

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

AKRON, CANTON & YOUNGSTOWN.—We are officially advised that contracts will be let soon for building this railway from Akron to Youngstown, Ohio, 54 miles, for which right-of-way is secured. Surveys have been run. Z. W. Davis is Pres., Canton, Ohio; Z. T. Herndon, Akron, Ohio, is Ch. Engr. Previously noted.

ARKANSAS.—At a recent meeting of the citizens of Harrisburg, Ark., held for the purpose of considering the organization of a stock company to promote a railroad from Newport to Memphis by way of Harrisburg. J. H. Piling was elected chairman of the temporary organization and S. T. Mayo, secretary. A committee consisting of Harry Holmes, J. C. Mitchell and Thos. Flourney was appointed to confer with the citizens of other towns along the proposed route about the matter.

ATCHISON, TOPEKA & SANTA FE.—We are advised that a contract has been entered into between Louis C. Hill, acting on behalf of the United States, and the Atchison, Topeka & Santa Fe Ry. Co., for the construction of a branch line of railroad between the site of the Elephant Butte Dam, Rio Grande Irrigation Project, New Mexico, to a point on the Rio Grande Division of this railway system between the stations of Engle and Cutter, a distance of approximately 10.4 miles. Under the terms of the contract the United States agrees to locate and construct at its own expense the necessary roadbed, bridges, ditches and culverts, and the railroad company agrees to furnish at its own expense all necessary track material and equipment and to lay the same, the cost of laying the material and placing the track in proper condition for the transportation of locomotives and cars to be paid to the company by the United States. It is estimated that the cost to the Government will be about $78,000. In the construction of the Elephant Butte dam there will be required nearly 300,000 barrels of cement and a large amount of fuel for the creation of power for excavating about 400,000 cu. yds. of material from the foundation and putting the concrete in place. In addition there will be a large amount of heavy machinery, gates and other materials, the hauling of which will be distributed over five years or more in the construction of the dam. These conditions render necessary as a matter of economy the construction of this line of railroad. Construction on the road is not to begin until plans for the project require it.

ATLANTA NORTHEASTERN. — Surveys are completed by this company for its proposed line from Atlanta via Roswell and Alpharetta to Cumming, Ga., 42 miles. Three extensions are contemplated after the main line is built, it is said, to run to Dahlonega, to Ellijay and a line eastward. J. L. Murphy, 1102 Candler Bldg., Atlanta, Ga., is Secy.; Matthew Mason, Terminal Bldg., Atlanta, is Ch. Engr.

BELLINGHAM TERMINALS & RY CO.—Incorporated in California to construct a railway at Bellingham, Wash. H. H. Taylor, of San Francisco, is Pres. of the new company, the stock of which is owned almost entirely by D. O. Mills, of San Francisco. The new company will develop the terminal facilities of Bellingham and construct a short road under a franchise recently granted to H. H. Taylor, as trustee. The new road will probably be operated under lease to the Bellingham Bay & British Columbia R. R. Co., in which D. O. Mills is heavily interested. C. C. Hyatt, of Bellingham, is the local agent of the road. Work on the new road and the terminal facilities are to begin at once and it is expected will be completed by winter.

BIG SPRINGS & SOASH.—Preliminary surveys are being made for this railroad under direction of F. H. Peters, Ch. Engr., of Big Springs, Tex.

CANADIAN NORTHERN ONTARIO.—A subsidy has been granted this company by the Canadian Government for building two lines of railway. One will run from Toronto, Ont., northwest, via the east side of Lake Simcoe to a point at or near Sudbury, 265 miles. The other line will run from Sudbury Junction, Ont., to Hutton Mines, 30 miles.

CAROLINA, CLINCHFIELD & OHIO.—Contract has been awarded to the RINEHART & DENNIS CO., Colorado Bldg., Washington, D. C., for seven miles of railroad from Kiser (Dexter post-office), Va., on the Church Valley Division of the Norfolk & Western Ry., to the summit of Sandy Ridge. This is the first work on the Elkhorn extension from Dante, Va., to Elkhorn City, Ky., 40 miles. M. J. Caples is Ch. Engr., at Johnson City, Tenn.

COLORADO.—R. A. Hall, of the Hall Construction Co., and C. S. Ripley, of Denver, Colo., are interested in proposed railway between Pactolus, Colo., and Central City, 17 miles. There will also be a line from Pactolus to Russell Gulch, 22 miles, and a spur to Blackhawk, three miles, it is stated. R. H. Hall is Pres., Central City, Colo.

CUYUNA IRON RANGE R. R.—A company under this title, will build a railroad from Superior, Wis., to the Cuyuna iron range country. The Rogers-Brown Furnace Co., of Chicago, is named as the promoter. Cuyler Adams, of Duluth, Minn., is Pres. It will be 100 miles long.

DENVER, LARAMIE & NORTHWESTERN.—It is announced that a committee of business men of Greeley, Colo., will submit a proposition to the D., L. & N.-W. R. R. Co., whereby Greeley will raise $200,000 for the construction of the new line by way of Greeley. The committee consists of Mayor George M. Houston, C. D. Todd, J. M. B. Petrikin, James Phillips and F. B. Bartlett.

ELK & LITTLE KANAWHA.—This company plans to build from Gassaway, W. Va., on the Coal & Coke Ry., westward to a point near Rosedale, about 15 miles. C. F. Peyton, of Charlestown, W. Va., is Engr.-in-Charge.

GRAND TRUNK PACIFIC.—Bids have been received and an announcement will be made regarding the successful bidder for the Melville to Yorkton branch in Saskatchewan. An announcement will also be made regarding the contract for the North Battleford branch and bids will be called immediately for the branch betwen Regina and Melville, Sask.

Vice-President Wainwright has stated that work will possibly be started this summer on the branch from Melville, Sask., northwest to Prince Albert, and that the other branch lines north and south from Melville will be completed this summer.

Active progress is being made on the construction of the Grand Trunk Pacific's new transcontinental line across Canada, according to Charles M. Hays, Pres., who is quoted as saying: "By Sept. 1 we shall have opened 1,305 miles of our western line, reaching from Fort William, Ont., to the end of the prairie section at Wolf Creek, 120 miles west of Edmonton, Alberta. We are operating a mixed train service from Winnipeg to 700 miles west. About Oct. 1 we expect to open 100 miles more from the western end at Prince Rupert as far east as the Copper River."

HOUSTON, FOSTORIA & NORTHERN.—The citizens of Cold Springs, Tex., have raised bonus of $7,500 for this railroad, which is to be built from Fostoria, near Cleveland, Tex., to Cold Springs, by the Foster Lumber Co., of Houston.

INDIANAPOLIS UNION RY.—Contracts for the grading, concrete work and steel to be used in the East Washington St. track elevation have been let by the Indianapolis Union Ry. Co. with the approval of the city. The contracts amount to about $150,000 and the work is to be rushed to completion. The contract for the steel was let to the McCLINTIC-MARSHALL CO., of Pittsburg, who will also get the contract for erecting the steel. The AMERICAN CONSTRUCTION CO., of Indianapolis, Ind., received the contract for the grading and concrete work. W. T. Cannon is Secy. and Pur. Agent.

MANITOULIN & NORTH SHORE.—Bids will be received until June 15 by C. N. Coburn, Ch. Engr., Saulte Ste. Marie, Ont., for the clearing, grading and ballasting of the first eight miles of this line. Noted fully on May 27.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Contract has been awarded to FOLEY BROS., of St. Paul, Minn., for the construction of 200 miles of double-track from Thief River Falls, Minn., to Winnipeg, Man.

NORFOLK & WESTERN.—This company has let contracts to MOOREMAN BROS and JOHN T. McKINNEY CONSTRUCTION CO., both of Lynchburg, Va., for seven miles of second track between Hull and Wyoming, in West Virginia. This is an extension of the double track now in use.

QUEBEC, MONTREAL & SOUTHERN.—A subsidy has been granted to this company by the Canadian Government for building a line from Yamaska, Que., northeast to a point in the County of Lotbiniere, 70 miles, and another from Mount Johnson, Que., to St. Gregoire, 1½ miles. F. D. Anthony is Ch. Engr., Montreal, Que.

SACRAMENTO & SIERRA.—Grading has been commenced on this line. Surveys have been made between Sacramento, Cal., and the Lake Tahoe timber lands. Chas. A. Smith, of Minneapolis, Minn., is the promoter. As noted on May 13, this company has been incorporated to construct a railway from Sacramento, Cal., to Lake Tahoe via Orangeville, Georgetown and Jackson Springs, 126½ miles. Right-of-way has been secured and the surveys are completed. Capital stock, $1,000,000, of which $129,500 is subscribed. Among those interested in this project, besides Mr. Smith, are Frederick A. Warner, Naugastuck, Conn.; Frederick H. Pierce, Harry Thorp and Arthur E. Miller, of Sacramento, and Thos. Stevenson, of Greenwood, El Dorado County, Cal. B. F. Hulings, Sacramento, local representative.

ST. MARY'S & CRAWFORD BAY.—Application has been made, it is said, to the Dominion Parliament for power to change the name of this company to the British Columbia, Alberta, Saskatchewan & Manitoba. Also for an extension of time in which to build between Hartney, Man., and the Pacific Coast, about 1,600 miles.

UNION PACIFIC.—The contract for building 100 miles of railroad from Wamsutter, on the main line of the Union Pacific, west of Cheyenne, to Craig, in Routt County, Colo., 40 miles west of Steamboat Springs, the present terminus of the Moffat road, has been let to W. C. KILPATRICK & BRO., of Omaha, Neb., it is stated. Estimated cost, $1,000,000.

ELECTRIC RAILWAYS.

BOSTON, MASS.—Counsel for the Boston & Northern and the Old Colony Street Railway Companies appeared before the Railroad Commission last week and filed lists of new work which the companies have mapped out for the present year. These lists are in support of petitions for new bond issues which the companies have asked the board to authorize, and the board will make its independent investigation to determine if they warrant the proposed amounts of bonds. The Boston & Northern wants to issue $536,000 and the Old Colony $275,000. Of these amounts the Boston & Northern proposes to use about $130,000 on its line from Stoneham Sq. to and into the Middlesex Fells, a new line which undoubtedly will be opened for traffic in the fall. It has planned improvements in Haverhill, Gloucester, North Andover, Methuen, Georgetown and Lawrence. For new cars and other equipments it will set apart about $171,400; for a car house in Chelsea, $7,000; for a building in Revere, $15,000; for a power station in Lowell, $50,000, and for one in Lawrence, $120,000.

The Old Colony Company has planned extensive improvements in its service between Brockton and Fall River, including the construction of a duplicate transmission line on the existing poles from the terminal house in one city to the terminal house in the other, and underground conduits for low tension feeder wires in Brockton; also a telephone system between Taunton and Fall River and a new power station and paint shop in Fall River. New cars and other equipments are proposed for $75,000. R. S. Goff is Gen. Mgr. of the Boston & Northern St. Ry. Co., and also of the Old Colony St. Ry. Co., at 84 State St., Boston.

NEW YORK, N. Y.—In regard to the Third Ave. Bridge Co., noted last week, Frederick W. Whitridge, receiver of the Third Ave. R. R. Co., announces that his system is back of the Third Ave. Bridge Co., which was recently incorporated at Albany with a capital of $100,000 to operate a line of surface cars across the new Queensboro Bridge. The new company will apply to the Board of Estimate and Apportionment in the near future for a franchise. If the company gets a franchise and the new line is built, it is, Mr. Whitridge said, his intention to exchange transfers with the Third Ave. cars. This will mean that residents of Queens will be able to get to Brooklyn Bridge or The Bronx for a 5-cent fare.

NEW YORK, N. Y.—The Board of Estimate and Apportionment has approved the franchise granted by the Public Service Commission for the extension of the Hudson & Manhattan R. R. Co.'s line from Sixth Ave. and 33d St. to the Grand Central Station. The vote was unanimous. Work may now be begun as soon as the company obtains the necessary consents of the property owners along the route. William G. McAdoo, Pres. of the Hudson & Manhattan R. R. Co., said of the company's plans: "As soon as the Mayor affixes his signature to the franchise, we shall apply for the necessary property consents, or, in lieu of them, for a certificate from the Supreme Court, as required by law. It will require about 18 months after these formalities have been complied with to construct the tunnel. Work will begin as soon as all of the necessary details can be completed and we hope to have trains running into the Grand Central Station in the early part of 1911."

FREEDOM, PA.—Barker, Barker & Owens, civil engineers, of Beaver, Pa., have completed the survey for E. B. Shilton, of Freedom, and Pittsburg capitalists, of a proposed street car line from Freedom to Crider's Corners, at the intersection of the Pittsburg, Harmony and New Castle lines. The length of the proposed road is eight miles. A part of the right-of-way has already been secured. The new road will be equipped with electric locomotives for handling freight traffic.

NEW CASTLE, PA.—The Mercer County St. Ry. Co., which will build an electric railway under the franchise of the New Castle & New Wilmington Ry. Co., is making final surveys. A. G. Shaw is Ch. Engr., Greenville, Pa.

GLASSPORT, PA.—The Jefferson & Wilson St. Ry. Co. and the Peters Creek St. Ry. Co., recently chartered, propose to build an electric line to connect Glassport and Clairton. W. G. Wilson, of Dravosburg, Pa., is Pres., and W. G. Weimer, is Secy. C. L. King, H. F. Miller and John Herron are directors of the companies. All the necessary right-of-way has been secured and franchises have been granted by the boroughs through which the new electric line will pass. The railway will be five miles long and will pass through Coal Valley, Wilson and Blair. There will be a bridge over the Monongahela River, it is stated. Estimated cost, $300,000.

LAURENS, S. C.—On the part of the Chamber of Commerce of this city and the Business League of Clinton, S. C., the committee, composed of Dr. H. K. Aiken and N. B. Dial, of this city, and Dr. W. A. Shands, of Clinton, have awarded to JOSEPH E. SIRRINE, of Greenville, S. C., a contract to make surveys of the proposed trolley line between and around these two towns. The contract calls for a number of surveys, taking in several miles within the city limits of Clinton and Laurens and the four cotton mills at both places; also a complete prospectus, with full details.

COLLEGE PARK, GA.—A franchise has been granted to the Fairburn & Atlanta Railway & Electric Co. by the City Council. It is the plan of the company to construct an electric railway from Fairburn through Stonewall and Red Oak to College Park, about ten miles.

MAYSVILLE, KY.—We are officially advised that capital for construction has been secured by the Cincinnati, Louisville, Lexington & Maysville Traction Co. This company was recently chartered in Kentucky, with $10,000,000 capital stock, by W. T. S. Blackburn, of Dry Ridge, Grant County, president of the company and one of the promoters. As noted on April 22, company's articles provide for the construction of a complete electric traction system, to be operated between Cincinnati and Lexington and Maysville and Louisville, crossing each other at Dry Ridge. It will be about 250 miles long. The other officers are: Vice-Pres., J. Glascock, of Williamstown, Ky.; Secy., John McCoy; Treas., Kate Martin, of Dry Ridge, Ky. The other stockholders are J. Duvall and Perry Simpson, of Dry Ridge; Addie B. Atkins, of Sherman, Ky.; John J. Blackburn, of Hanks, Ky.; George McMillen, of Butler, Ky., and S. M. Billiter, of Williamstown, Ky. It is stated that engineers have been engaged to make survey.

YOUNGSTOWN, OHIO.—Construction of the Lake Erie & Youngstown Ry., an interurban line to run from Conneaut through Andover and other points to Youngstown, will be started soon. The contracts have been awarded to the STANLEY CONSTRUCTION CO., of Conneaut. The cost of the building and the equipment is estimated at $3,000,000. The new line will connect with the Youngstown & Southern Ry., which runs from here to East Liverpool.

COLUMBUS, OHIO.—By the terms of a contract which has been entered into by the Columbus, New Albany & Johnstown Traction Co., with the DOMINION CONSTRUCTION CO., of Pittsburg, of which A. L. Richmond, of Pittsburg, is Pres., the line of the traction company is to be extended almost immediately from Gahanna, the present terminus, to Johnstown, in Licking County. The contract involves approximately $650,000. A corps of engineers is already on the ground and a number of lines have been surveyed.

FORT WAYNE, IND.—We are officially informed that the Fort Wayne & Toledo Elec. Ry. Co. will organize its own company to construct its proposed line. R. T. Bastress, of Harlan, is Gen. Mgr. The line will be 55 miles long, and will connect Fort Wayne, Maysville, Ind., Hicksville and Bryan, Ohio. The authorized capital stock of the company is $100,000. Right-of-way is mostly secured. Surveys have not been made yet. E. A. Tennis is Pres., Garden City, Kan.

WABASH, IND.—The Wabash & Northern Traction Co. will receive bids, it is said, for construction of an interurban line between Wabash and Warsaw, Ind., as soon as surveys are completed.

BENTON HARBOR, MICH.—The Benton Harbor-St. Joe Ry. & Light Co. has awarded contract, it is announced, to McLANE & CO., Detroit, Mich., for a 10-mile extension from Benton Harbor, Mich., northeast to Coloma. Contracts for materials are said to be let as follows: CARNEGIE STEEL CO., rails; ELECTRIC SERVICE SUPPLIES CO., overhead material; F. CARTWRIGHT, South Bend, Ind., poles; LOMBARD & RITTENHOUSE, Hastings, Mich., ties.

DANVILLE, ILL.—We are officially advised that the Danville, Crescent & Kankakee Traction Co. has commenced surveys and has secured three-quarters of its right-of-way. As previously noted, this company was incorporated to build an electric railway from Danville to Crescent City via Rankin and Potomac, 75 miles. Capital stock, $10,000. Incorporators: E. E. Meyers, George H. Clark, Louis Schwer, F. J. Nassels, U. S. G. Humphries, Henry R. Voigt, Fred. G. Nightingale and J. P. Sterrenberg, of Crescent City. A. J. Witman, Chicago, Ill., is Ch. Engr.

JOLIET, ILL.—The City Council has granted the Joliet & Southern Traction Co. an extension of two years to its franchise. By this new ordinance, the company has until April 23, 1911, to complete its interurban system.

YORKVILLE, ILL.—The Yorkville & Morris Elec. R. R. Co. will build an electric railway from Yorkville to Morris, Ill., 22 miles. H. G. Palmer, Berwyn, Ill. is Pres. It is reported that company is in the market for materials.

GRAND RAPIDS, WIS.—The Grand Rapids St. R. R. Co. has placed a contract with the KNOX CONSTRUCTION CO., of Chicago, Ill., for the construction of its proposed electric railway, which is to connect Grand Rapids, Port Edwards and Nekoosa, seven miles.

SPARTA, WIS.—The Sparta & Melrose Elec. Ry. & Power Co. has let contract for grading the first eight miles out of Sparta to G. W. ORTON and W. G. HORN, of New Lisbon, Wis. This project was noted fully last week.

HOBART, OKLA.—Contract has been let by the Oklahoma Midland Elec. Ry. Co. to the J. A. KAUFMAN CONSTRUCTION CO., of Dayton, Ohio, to build interurban lines in the southwestern part of Oklahoma. A street railway will also be built in Hobart. Estimated cost of line, $5,000,000. H. H. Hoovre is Pres. and J. H. Montgomery, Secy., of the electric railway company at 204 East Fourth St., Hobart. C. Townsend Blake is Vice-Pres. and R. E. Nye, Treas. Howard R. Klepinger is Ch. Engr. of the construction company. The contract provides for the complete construction of the 150 miles of line and its equipment and the construction and installation of two power plants, each of 8,000-HP., one at Cloud Chief, Okla., and the other at Weteeka, Okla.

LOS ANGELES, CAL.—Right-of-way is being procured by the Ontario & San Antonio Heights Railway Co. for an electric railroad, which it will construct between Uplands and Claremont, a distance of about six miles. The cost of the road will be $150,000 to $175,000. An electric line between Ontario and San Antonio Heights is now being operated by the company, which is owned by the Pacific Light & Power Ry.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Supervisors until 1 p. m., June 21, for a street railway franchise over Stockton, Bay and other streets to the Presidio Reservation, for term of 25 years.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

AUGUSTA, ME.—We are officially advised that bids were received on May 28 by the Kennebec Light & Heat Co. at Augusta for constructing a high-pressure gas main from Hallowell to Gardiner, about 24,000 ft. of 4-in. pipe line and 1,350 ft. 6-in. pipe line, and the contract has been awarded to JOHN E. PALMER, Old South Bldg., Boston, Mass. W. B. Getchell is Ch. Engr.

PITTSFIELD, MASS.—The Pittsfield Electric Co. has awarded to G. M. GEST, of New York, N. Y., the contract for laying ½-mile of conduits for about $7,500. W. A. Whittlesey is Supt.

WESTFIELD, MASS.—RIVERS & YOUNG, of Chicopee, have secured contract for constructing power-house on Elm St. for the Westfield Power Co., to cost about $30,000.

NEW YORK, N. Y.—The following bids were received on June 1 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in the additions to alteration in Public School No. 84, on the southerly side of Glenmore Ave., between Watkins St. and Stone Ave., Boro. of Brooklyn: T. F. Jackson, 592 Columbus Ave., New York, $8,278; E. J. Duggan, 1133 Broadway, New York, $10,325; Cowden & De Young, 45 East 42d St., New York, $9,893.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 11 a. m., June 21, for installing electric equipment in addition to and alterations in Public School No. 30, on the southeast corner of 141st St. and Brook Ave., Boro. of the Bronx. For installing electric equipment in the new Public School No. 101, on the north side of East 111th St., about 43 ft. west of Lexington Ave., Boro. of Manhattan. For repairs, alterations and additions to the electric equipment in Bryant High School and Public Schools Nos. 11 and 14, Boro. of Queens.

SARANAC LAKE, N. Y.—The Saranac Lighting Co. has awarded contract to CHARLES E. STARR, of Philadelphia, Pa., to construct a gas plant at Saranac Lake for $84,000.

EMAUS, PA.—The Council has awarded YEAGER & CHAPEN the contract for lighting streets of the borough, and plans and specifications are reported to have been completed for the proposed plant which they will construct.

JOHNSTOWN, PA.—We are officially advised that the Johnstown & Gallitzin Ry. Co., of Johnstown, Pa., has received bids and will let contracts in August for steam power plant equipment to be located near St. Michaels. It will generate current at about 13,000 volts with two units of 750 KW. each. One substation will be located at the main power station, which is approximately the center of distribution system near South Fork, Pa., and an additional substation will be built at each end of the line. Current will be transformed and stepped down at the substations to 600 volts, direct connected, as the company proposes to operate cars for a distance of 2¼ miles over the Johnstown Passenger Ry. George Holman, Suppes Bldg., Johnstown, Pa., is Engr. and Gen. Mgr. Estimated cost, $93,000. Noted on Feb. 18, March 11 and 25.

BRIDGEPORT, OHIO.—Bids are asked by the Village Council until June 21 for street lighting for a term of ten years. The village has a population of over 4,000 inhabitants. R. T. Michener is Village Clk.

CLERMONT, IND.—Bids will be received in July for improving power plant and lighting the grounds of the Industrial School. Probable cost, $ Miss Charlotte Dye is Supt.

FRANKFORT, IND.—It is stated that the Indiana National & Illinois Co., which has been supplying gas here and at Lebanon, La Fayette and several other cities in the former has been succeeded by the Co., which will erect a gas fort. The main building ft., with a number of small main gas tank will have a cu. ft.; the plant will have 300,000 to 400,000 cu. ft. pany has arranged to furnish fort, Lebanon, La Fayette, a number of surrounding Murdock, of La Fayette, is of the company, which is $4,500,000 .

LURINGTON, MICH.—The Co. has closed a contract PROVED EQUIPMENT CO., New York, for the construction gas plant to take the place of water gas factory. The structure fireproof building, one story, made of brick, with cement Work will begin at once and to be completed by June 1. have sublet the job to the & AMES CO., of Grand Rapids. stallation of this coal gas plant cilities for making coke as a by-product, will entail the expenditure of about $10,000. W. F. Doelker is Mgr.

*DELPHOS, KAN.—Bids are asked until 1 p. m., June 23, by the City Clerk for constructing a system of waterworks and an electric light plant, separate bids being entertained. J. R. Adams is Mayor. The J. S. Worley Co., Kansas City, Mo., Engrs.

*FORT D. A. RUSSELL, WYO.—We are officially advised that bids were received by Capt. V. K. Hart, Acting Q. M., Keefe Hall, Cheyenne, Wyo., April 24, for the construction and remodeling of an electric lighting system at Fort D. A. Russell, including the following items: (1) Constructing primary, secondary, service, transmission and street light lines, furnishing and installing cut-outs and street lamp brackets, and installing transformers, removing part and remodeling part of the old line; (2) furnishing and installing all tungsten lamps, switchboard and all apparatus for substation; (3) furnishing all watt meters and transformers; (4) installing interior conduit, wiring and arc lamps for electric lighting cavalary drill hall. (5) construction of a building for transformer substation. On May 28 the Quartermaster-General, U. S. A., Washington, D. C., awarded the contract for the work referred to above, to the F. E. NEWBERY ELECTRIC CO., Century Bldg., St. Louis, Mo., at $34,644, for the entire work.

GREAT FALLS, MONT.—The Great Falls Gas Co. has let contracts for the construction of two masonry buildings which will contain machinery for the plant, the successful bidders being FRANK COOMBS and CHRIS. NELSON. It is provided that work shall commence at once and that the buildings shall be completed as rapidly as possible so that the machinery may be housed as rapidly as it arrives. It is expected that the buildings will be completed within a month, and the company expects to be operating by Sept. 1. The laying of distributing mains will be begun soon, and it is expected that ten miles of mains will be laid this year. The mains will range from 8 ins. to 2½ ins. in size, and they will be laid in the main business and residence sections first. It is unlikely that service will be extended farther than Twelfth St. this year. The two buildings to be erected will be 40 × 70 and 40 × 60 ft., respectively, and the walls of each will have a height of about 30 ft.

KALISPELL, MONT.—The Northern Idaho-Montana Power Co., with offices at Sandpoint, Idaho, has purchased the plant of the Kalispell Water & Electric Co. and will expend about $200,000 in improving it, and also about $100,000 improving the plant at Big Fork, it is stated. This company is said to be considering the improving of the water power on Moyie River and transmitting the power to Sandpoint.

EL PASO, TEX.—A building permit has been issued to the El Paso Electric Ry. Co. to erect a brick and steel addition to its power-house in Block 120, Campbell's Addition, at a cost of $14,500. The building is to be 35½ ft. wide by 100 ft. long and will be 35 ft. high and work on the construction will be commenced at once. It will almost double the size of the present plant. C. W. Kellogg, Jr., El Paso, is Mgr.

PALACIOS, TEX.—A. C. Randolph, of Palacios, has been granted a franchise for the erection of an electric light plant at Palacios. The initial plant will cost $10,000.

COVINA, CAL.—We are advised by W. A. White, Secy., that the contract for extensions to Glendora and Azusa has been let to the GAS OPERATING & CONSTRUCTION CO., of Los Angeles. This contract consists of 70,000 ft. of 1,500-lb. test 3-in. line pipe laid, 200 service connections and additions to plant.

RENO, NEV.—Articles of incorporation of the Lander County Power & Light Co. have been filed here, capitalization being $200,000. The company is organized to construct and operate electric light and power plants, and telephone and telegraph lines, through Nevada. F. L. La Badie, Julius Beeman and E. J. Knox, all of Reno, are the incorporators.

The Nevada-California Power Co. will build a dam, which will be 600 ft. long and 75 ft. high. The company has accepted plans for several long extensions of its lines this year, one particularly from Millers to Manhattan. This line will tap one of the most prosperous of the Nevada districts that has hitherto been without power.

*TORONTO, ONT.—Bids are asked by the City of Toronto until noon, June 30 for laying between 350,000 and 450,000 duct ft. of underground conduit. K. L. Aitken is Electrical Engr., City Hall; C. H. Rust, City Engr.

WINNIPEG, MAN.—The Winnipeg Electric Co. is calling for bids (privately) for a gas holder of 1,000,000 cu. ft. capacity. Wilford Phillips is Gen. Mgr.

*WINNIPEG, MAN.—Bids are asked until 11 a. m., Aug. 2, by the Chairman of the Board of Control, for the manufacture, delivery and erection of the hydraulic, electric and auxiliary equipment of the municipal generating station on the Winnipeg River. The specifications and plans will be on exhibit after June 15 at the office of Engineering News, New York.

MOOSE JAW, SASK.—We are officially advised that the contract for sinking a gas well, bids for which were received on May 31, has been let to ALEXANDER BROWN, of Sarnia, Ont. John D. Simpson is City Clerk.

LETHBRIDGE, ALTA.—Contracts for a municipal power plant for Lethbridge have been awarded as follows: To POLSON IRON WORKS, Toronto, Ont., mechanical draft and economizer, $6,800; DRUMMOND, McCALL & CO., Montreal, Que., complete piping, $14,365; MUSSEN'S CO., LTD., Montreal, Que., crane, $1,700; BABCOCK & WILCOX, LTD., Montreal, Que., boilers and accessories, $25,410; CANADA FOUNDRY CO., Toronto, Ont., feed pumps, $730; NORTH WEST ELECTRIC CO., Calgary, transformers, $1,320; CANADIAN WESTINGHOUSE CO., Hamilton, Ont., electrical equipment, $1,449, and LAURIE & LAMB, 211 Board of Trade Bldg., Montreal, Que., engine and condensing sets, $18,575.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

BIDDEFORD, ME.—The construction of a concrete bridge replacing the Bradbury St. structure is contemplated. Estimated cost, $7,500.

*HOLYOKE, MASS.—Bids will be received by the Board of Public Works until 2 p. m., June 18, for erecting new bridge across first level canal on Sargent St., and for repairing Dwight St. foot bridge. Oscar C. Ferry is Asst. Clk.; J. L. Tighe is City Engr.

NEW HAVEN, CONN.—The State Senate passed the bill, it is stated, authorizing the city to issue $75,000 of bridge bonds.

MILFORD, CONN.—The Board of Selectmen on May 22 awarded contract for constructing a concrete bridge over the Wepowage River to RYAN-UNMACK CO., of New Haven, at $4,525.

NEW YORK, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., June 17, for the construction of sidewalks, walls, railings, etc., in connection with the trolley railway approaches to the Brooklyn Bridge, in the Borough of Brooklyn.

The following bids were received on June 3 by J. W. Stevenson, Comr. of Bridges, for constructing the railings, stairways, etc., roadway and footwalk pavement, tracks and electrical equipment of the Manhattan Bridge over the East River between the Boroughs of Manhattan and Brooklyn: Lord Electric Co., 213 West 40th St., New York, $424,200; Gore-Meehan Co., 206 Broadway, $500,798; Cooper-Evans Co. & Grant Rehrer, $453,234; Snare & Triest, 143 Liberty St., $424,780; Ryan Parker Construction Co., 21 Park Row, $484,000; North Eastern Construction Co., 225 Fifth Ave., $454,300; J. H. Gray Co., Broadway and 23d St., $506,800.

HOKENDAUQUA, PA.—The Commissioners of Lehigh County, Allentown, on May 27 awarded the W. H. VON MENGERINGHAUSEN CO., of Catasauqua, the contract for constructing the superstructure of a bridge over the Lehigh River at Hokendauqua.

BROOKVILLE, PA.—Bids are asked until noon, June 14, by the County Commissioners for the reflooring with A. No. 1 oak of the Clarington Bridge over Clarion River, and for the reconstruction with concrete and paving brick, of the driveway of the Soldier Run Bridge in Reynoldsville Borough. W. A. Kelly is Clk.

SALISBURY, MD.—The city will at once construct two temporary bridges to replace those destroyed by floods.

*WASHINGTON, D. C.—The contract for widening the concrete bridge on the line of 16th St., bids opened on May 22, has been awarded to the CRANFORD PAVING CO., of Washington, at $62,915. Bids noted on May 27. W. J. Douglas is Engr. Bridges.

ALTA VISTA, VA.—Campbell County will construct a bridge over the Staunton River at Alta Vista.

ANDERSON, S. C.—The Blue Ridge Ry. Co., J. R. Anderson, of Anderson, Supt., will construct a bridge over the railroad on Peoples St. The city will build the approaches. A map of the bridge and approaches has been made by W. H. Shearer, City Engr., and has been adopted by the City Council.

NORWALK, OHIO.—Bids are asked by the Board of County Commissioners of Huron County, Norwalk, until noon, June 15, for furnishing materials and performing labor necessary for the erection of the superstructure of the steel or iron bridge over the west branch of the Huron River on the east and west section line road east of Steuben in Greenfield Township.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners of Cuyahoga County until 11 a. m., June 26, for the construction of bridge work as follows: Report No. 2381, concrete culvert, Pleasant Valley road, Parma Township; report No. 7383, culvert, Cedar road, Euclid Township. A. B. Lea is County Surv.

MARIETTA, OHIO.—Bids will be received by the Board of Public Service until noon, June 12, for furnishing the necessary labor and materials for the construction of a bridge across Goose Run at Seventh and Putnam Sts.

Bids are asked until noon, June 29, by the County Commissioners for the substructures and superstructures of bridges in various townships. J. M. Williams is County Audr.

MASSILLON, OHIO.—Contract for constructing a concrete bridge of two 60-ft. spans, bids opened on May 20, has been awarded to the KISSNER CONSTRUCTION CO., of Coshocton.

HAGERSTOWN, IND.—The Commissioners of Wayne County, Richmond, will receive bids soon for the construction of a new bridge at Hagerstown.

GREENFIELD, IND.—The Commissioners of Hancock County are preparing to ask for bids for the construction of about 25 bridges.

GENEVA, ILL.—The contract for a reinforced-concrete bridge at State St. has been awarded to the JOHN WHEELER CONSTRUCTION CO., of Geneva, at $39,200. Oscar Nelson is City Clk.

MANKATO, MINN.—Bids are asked until 2 p. m., June 10, by Ed Weaver, County Audr., for the construction of a 50-ft. steel bridge about five miles west of Amboy.

PIGGOTT, ARK.—Bids are asked until July 3, by the County Bridge Commissioners for the construction of a 100-ft. steel truss bridge over Quick's Creek, near Greenway. J. D. Mitchell is Engr., Greenway, Ark.

WALDRON, ARK.—The County Judge has rejected all bids for the construction of three county bridges.

MALVERN, ARK.—Hot Spring County has awarded contract to the ILLINOIS STEEL BRIDGE CO., Jacksonville, Ill., at $9,842 and $9,888, respectively, for constructing two steel bridges across the Ouachita River.

OKLAHOMA CITY, OKLA.—The City Engineer has estimated the cost of constructing bridges across the Canadian River and raising Pennsylvania Ave. above high-water level, at $25,000.

PUEBLO, COLO.—Surveys and soundings are being made and plans will be prepared at the office of Charles W. Comstock, State Engr., Denver, for a bridge over the Arkansas River at Orchard Grove. The State Assembly has appropriated $5,000 toward construction and Pueblo County will appropriate the balance.

*LAS ANIMAS, COLO.—Bids will be received until noon, June 26, by Charles W. Comstock, State Engr., Denver, for the construction of the superstructure of a steel bridge over the Las Animas River in Bent County, about three miles from Las Animas. This work consists of furnishing and fabricating the material and erecting a 190-ft. steel riveted span. Bids will be received for the furnishing, fabricating and erecting of bridge, complete, or will be received in two parts: (1) for furnishing, fabricating and delivering material at Las Animas, and (2) for hauling and erecting bridge upon piers already constructed.

REPUBLIC, WASH.—The Ferry County Commissioners have let a contract for the construction of two steel bridges across Kettle River—one at Orient and the other at Godfrey. The contract was let to the lowest bidder, the CHARLES G. SHEELY CONTRACTING CO., McPhee Bldg., Denver, Colo., at $13,780. The highest bid was $18,887. The Orient bridge will replace a wooden structure and the other will bring Ferry in closer touch with the more southerly part of Stevens County.

SAN JOSE, CAL.—Bids will be received until June 24 by the County for a concrete and rubble stone bridge at entrance to Alum Rock Park. Estimated cost, $4,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

GREENWICH, CONN.—The plans for the new $100,000 clubhouse for the Greenwich Country Club, formerly the Fairfield County Golf Club, have been accepted. The house is to be erected about a quarter-mile north of the present building. It will be of wood in the Colonial style with several stone chimneys on the outside. The building will have card rooms, bowling alleys, ballroom, general and ladies' dining rooms, cafe, squash courts, ladies' and men's lockers, and 18 sleeping rooms. James McCutcheon is Chn.

HARTFORD, CONN.—The Southern New England Telephone Co. has awarded the contract for a 3-story brick fireproof building to C. B. ANDRUS & SON, of this city. Work will be started at once.

It is reported that the Appropriations Committee has voted to recommend an appropriation of $400,000 for a new state reformatory.

SONYEA, N. Y.—Bids are asked by Percy L. Lang, Pres. of the Bd. of Mgrs. of the Craig Colony for Epileptics, at Sonyea, N. Y., until 2 p. m., June 15, for the construction, complete, of two buildings for tuberculosis patients, including heating, plumbing and electric work. F. B. Ware is State Arch.

NEW YORK, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the general contract for the construction of a warehouse for L. M. Palmer, at Vine and Doughty Sts., Brooklyn, N. Y. The building will be 97 × 54 ft., six stories and basement in height, and of reinforced concrete. Work will be started at once. D. B. Probst is Arch.

Plans have been filed for a 5-story flat-house, 48.7 × 89.3 ft., with ground floor stores, to be built on the west extension of Delancey St. plaza, at Delancey and Mulberry sts., for the Michael Briganti Co., 184 Lafayette St. The building will have suites for 35 families, and is to cost $55,000. Charles M. Straub is Arch., 147 Fourth Ave.

Plans have been filed for a 10-story loft building to be erected at the northeast corner of Sixth Ave. and 16th St., to cost $150,000. It is to occupy a lot measuring 29.10 ft. on Sixth Ave. and 65 ft. on 16th St., and will probably be connected with the 10-story structure adjoining on the street, owned by Max Kurzrok, 55 West 16th St., who will own the proposed building.

John Russell Pope, Arch., 527 Fifth Ave., has filed plans for the proposed 12-story hotel to be erected for Charles E. Rector on the site of his restaurant at Broadway and 44th St. It is to be of the Louis XV. Renaissance type, with limestone at the three lower stories, and faced with brick and terra cotta above, crowned by a large mansard. There will be a spacious Broadway entrance finished with Corinthian pillars. The building will have a Broadway frontage of 102.3 ft. and a depth of 131.3 ft., and is to cost $1,000,000.

Plans have been filed for an 8-story apartment hotel, to be erected for the Champlin Realty Co., as owner, at 526 West 113th St., and to be fitted as a students' dormitory. It will be of brick, with trimmings of limestone and terra cotta, with a frontage of 75 ft. and a depth of 85 ft. The ground floor will contain a dining room, parlors and a lounging room, and the upper floors will be apportioned into two-room suites. The building will cost $210,000, and the design is by Mulliken & Moeller, Archs., 7 West 38th St.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 21, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for alterations and repairs at Public Schools Nos. 2, 92, 99, 100, 102, 104, 118, 127, 128, 131, 134, 136, 139, 140, Erasmas Hall High School, Manual Training High School, Annex, Boro. of Brooklyn. For alterations, repairs, etc., at Public Schools Nos. 25, 26, 35, 55, 56, 70, 73, 79, 87, 106, 113 and 116, Boro. of Brooklyn. For alterations, etc., for Public School No. 16, 208 West 13th St., Boro. of Manhattan. For alterations, repairs, etc., at Public School No. 11, Woodside Ave., Woodside, Boro. of Queens.

NEW YORK, N. Y.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of the foundations, track columns and basement floor of the new New York post-office to CHARLES H. PECKWORTH, 415 Hudson St., New York, at his bid of $617,305. Time, Dec. 15, 1909.

The following bids were received on June 3 by the Park Board for all labor and materials required for the erection and completion of a shelter house and comfort station located on the west side of Riverside Drive, opposite Grant's Tomb: Paul J. Exner, 1 Madison Ave., $38,970; J. F. Walsh Construction Co., 1 Madison Ave., $37,000; Amsterdam Building Co., $41,066; James F. Egan, $51,875; Thomas McKeewn, $47,133; N. O. Smythe, $52,409; George Hilderbrand, $44,400; O'Connell & Hanna, $54,715; Hartman & Hogan, $54,394; Kelly & Kelley, $41,484; George Vassar Sons Co., Inc., $43,375; George F. Driscoll, $50,500; Thomas B. Leahy Building Co., $41,327; Guidone & Gelardi, $43,407; Morningside Construction Co., $51,000; Edmond D. Breffan, $51,000; Swift Building Co., $47,300; John Kennedy Co., $47,340; Calumet Construction Co., $47,843; Joseph De Benedetto, $54,155; M. Reed & Co., $49,628.

ALBANY, N. Y.—The State Prisons Commission has approved plans and specifications for the construction of a county jail for Jefferson County, to be located at Watertown. O. D. Green, of Adams, N. Y., is Arch. It is estimated that the work will cost in the neighborhood of $90,000. Bids will shortly be asked by the Jefferson County Board of Supervisors, Richard Holden, Jr., of Watertown, N. Y., Clk. The State Commission also approved plans for the construction of a new dormitory for the New York City Reformatory for Misdemeanants on Hart's Island. Also, for kitchen addition at the Clinton Prison; for infirmary at the Dannemora Hospital for insane criminals, and for two punishment steel buildings, of one story each, to be located at Auburn and Clinton prisons. The proposed punishment buildings will have 26 isolated cells in each building, for the confinement of refractory convicts. C. V. Collins, Albany, is Supt. of State Prisons. F. B. Ware is State Arch.

BUFFALO, N. Y.—Green & Wicks, 110 Franklin St., have prepared plans for a 4-story addition of brick and stone to be made to the German Deaconess' Home and Hospital on Kingsley St. The addition is to be fireproof and will contain 75 rooms and operating room. Cost, $80,000.

The Finance Committee of the German Hospital, William F. Casting, Chn., 385 Ellicott St., is arranging to build a nurses' home adjoining the hospital building at Jefferson and Genesee Sts.

Colson & Hudson, Archs., 35 Dun Bldg., have prepared plans for a 4-story and basement apartment house, to be erected on Johnson Park, near Delaware Ave., by William B. Lynde, 621 Ellicott Sq. It will have steel frame, brick, concrete and tile. Cost, $50,000.

GENESEO, N. Y.—Bids are asked until June 15 bp Dr. Andrew S. Draper, Comr. of Education, Capitol, Albany, for constructing an addition to library, new connecting corridors, and changes in boiler house, including storm water drainage, heating and electric lighting for the State Normal School, Geneseo.

PHILADELPHIA, PA.—Plans for the erection of a building at 3338-60 Walnut St., at the corner of 34th St., for the Graduate School of the University of Pennsylvania, are being drawn in the office of Cope & Stewardson, Archs., 320 Walnut St. It will cost $150,000 and will have an exterior of stone, the design being in the collegiate Gothic style of architecture. Work will be started in the fall.

Plans are being drawn for a large store and loft building to be built at 706-10 Market St., by the William Steele & Sons Co., 1600 Arch St., for Joseph M. Steele, who is the head of the firm. The structure will cost about $200,000. The building will be six stories high, of concrete, brick and terra cotta construction. It will have a frontage of 54.1 ft. on Market St. and a depth of 124 ft. to Ludlow St. The new building is being designed in such a manner that additions may be added without conflicting with the architectural plan.

Bids are asked until 11 a. m., June 19, by R. C. Holyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for alterations in the boiler-house at The Naval Home, Philadelphia. Specifications are on file at the office of Engineering News, New York.

OVERBROOK (Philadelphia post-office), Pa.—As the site for a suburban home, Clarence H. Geist, Pres. of the C. H. Geist Co., Philadelphia, has bought the lot at 6395-97-99 Drexel Road, Overbrook, from Rudolph H. Wolf. Upon the ground, which measures 190 × 150 ft., Mr. Geist is about to have erected a house at a cost of $50,000 and a stable and garage at a cost of $10,000.

MONT ALTO, PA.—A contract for the erection of a group of buildings at the South Mountain Sanatorium, at Mont Alto, has been awarded to CHARLES W. DENNY, 1330 Arch St., by Dr. Samuel G. Dixon, State Comr. of Health. The cost will be about $50,000. Wilson, Harris & Richards are Archs., Drexel Bldg., Philadelphia.

PITTSBURG, PA.—Palmer & Hornbostel, Archs., 63 William St., New York, are at work on plans of a school of medicine for the University of Pittsburg. It will adjoin the building on Grant Boulevard, Schenley Farms, now being completed for the university, and is to be of the same general style of architecture. It is to cost about $200,000.

*FORT DUPONT (Delaware City post-office), DEL.—Bids are asked until 11 a. m., June 16, by the Constructing Quartermaster, U. S. A., for furnishing and installing metal frame screens in 2-company barrack, band barrack, firemen's quarters, and quarters for two N. C. officers, at Fort Dupont, Del.

*WINCHESTER, VA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until noon, July 12, for the construction, complete, (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Winchester.

*NEWBERN, N. C.—Bids are asked by James Knox Taylor, Suprv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 15, for extension, remodeling, etc., of the U. S. post-office, court-house and custom-house building at Newbern.

ATLANTA, GA.—Bids are asked until 10 a. m., June 26, by R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. Penitentiary, Atlanta, Ga., structural steel.

Bids are asked until 10 a. m., June 29, by R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. Penitentiary, Atlanta, Ga., 1,000,000 brick.

FORT DADE (Egmont post-office), FLA.—Bids are asked until 8 p. m., June 18, by the Constructing Quartermaster, for constructing, plumbing and electric wiring two double sets of non-commissioned officers' quarters.

FERNANDINA, FLA.—Bide were received as follows on June 7, at the office of James Knox Taylor, Superv. Arch., of the Treasury Dept. Washington, D. C., for the construction of a post-office building at Fernandina, Fla.: George A. Clayton, Atlanta, Ga., $76,800; Charles Hoertz & Son, Grand Rapids, Mich., $86,212; Harry A. Bishop, Chicago, $82,775; King Lumber Co., Charlottesville, Va., $80,000; William H. Fissell, New York, $85,500; D. J. Phipps, Newport News, Va., $73,000; Gude & Co., Atlanta, Ga., $85,900. Time, June 1, 1910.

YAZOO CITY, MISS.—James Knox Taylor, Superv'g Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Yazoo City, Miss., to RUBUSH-DARBS CONSTRUCTION CO., Meridian, Miss., at $46,575.

DANVILLE, KY.—Bids were received as follows by James Knox Taylor, Superv. Arch., of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Danville, Ky.: Blue Ridge Construction Co., Asheville, $68,000; Howard & Marchat, Lexington, Ky., $78,797; McHenry-Beatty Construction Co., East Liverpool, Ohio, $64,740; Danville Lumber & Mfg. Co., Danville, Ky., $66,000; Alfred Struck Co., Louisville, Ky., $63,540; D. J. Phipps, Newport News, Va., $66,430; Bedford Stone & Construction Co., Indianapolis, Ind., $64,365; Luyster & Lowes, Dayton, Ohio, $63,700; John G. Unkefer & Co., Minerva, Ohio, $63,369. Time, July 1, 1910.

COLUMBUS BARRACKS (Columbus post-office), OHIO.—We are officially advised that bids were received as follows by Capt. H. J. Hirsch, Constr. Q. M., on May 26, for the construction of (a) administration building, (c) recruit receiving barrack, (b) barrack for 300 men, and (d) fire station, at the post, including plumbing, heating, electric wiring and electric lighting fixtures: Patrick Shanahan & Alfred Mulby, (a) $39,195; (b) $45,785; (c) $27,300; (d) $3,450. William K. Kolb & F. G. Kolb, (b) $36,412; (d) $2,963. The Francis Bros. Co., (a) $33,000, $32,950, $32,900, $31,700, $31,650, $31,600; (b) $43,000, $42,000; (c) $26,000, $24,800; (d) $3,000, $2,700. Adam Pitts, (b) $40,100. E. E. Beckett, (a) $41,889, $41,699; (b) $48,238; (c) $28,050; (d) $2,840. The L. P. Hazen & Co., (a) $31,445; (b) $33,700. J. J. Marvin, (b) $42,500. Robert H. Evans & Co., (a) $33,475, $33,225, (b) $41,353; (c) $24,507; (d) $2,837.

ROCKVILLE, IND.—We are officially advised that the MODERN CONSTRUCTION CO., of Terre Haute, Ind., has been awarded the contract to construct the State Tuberculosis Hospital at Rockville, at $79,842. Plans for the plumbing, heating, electrical, sewers and mechanical equipment for the power-house are being made. Bids will be in order soon. Governor Marshall (ex-of-

ficio), is Chn., of the Comn. Brubaker & Stern are Archs., Indianapolis. Dr. Henry Moore is Pres.

VINCENNES, IND.—Previous bids exceeded the appropriation and the Board of Public Works will advertise again for bids for the construction of two fire engine and hose houses.

FORT WAYNE, IND.—The Township Advisory Board will ask for bids for the construction of a ward school building in the rolling mill district as soon as plans are completed.

FORT BENJAMIN HARRISON (Lawrence post-office), IND.—Bids are asked by J. V. Heidt, Q. M., U. S. A., until June 15, for the construction of an addition to the hospital building at Fort Benjamin Harrison.

INDIANAPOLIS, IND.—The Trustees of the Catholic Church, Rev. George J. Smith, Pastor, will receive bids for the erection of a church at North and Rural Sts.

The Trustees Shelby Street Catholic Church, Rev. Otto Bosler, Pastor, will ask for bids for the erection of a church at the corner of Kelly and Haber Sts., as soon as plans are completed.

Trustees of the Methodist Hospital, Rev. F. A. Steele, Secy., have ordered plans for the erection of an addition to the hospital building on 16th St. Estimated cost, $60,000. Bids will be invited later on.

JASPER, IND.—The Commissioners Dubois County have decided to build a courthouse. Bids will be solicited as soon as plans are completed.

SOUTH BEND, IND.—The School Board is considering a 10-room school building, to be built on the site of the Franklin School building, recently condemned.

LEBANON, IND.—J. T. Hutton, of Hammond, Ind., has been employed to prepare plans and specifications and supervise the erection of a court-house. Bids will be in order about June 20.

MICHIGAN CITY, IND.—The Boston Department Store Co. will ask for bids for the erection of a business building. Estimated cost, $500,000. Plans will be ready for bidders soon.

CHICAGO, ILL.—The directors of the Chicago & Western Indiana R. R. and the Belt Ry. Co., of Chicago, which is owned by the Erie, Grand Trunk, Wabash, Chicago & Eastern Illinois and the Monon, with the Santa Fe as a terminal tenant, have authorized a bond issue of $50,000,000, preparatory to building a passenger station in Chicago. The matter is in the hands of a special committee headed by William J. Henley, Dearborn Station, Chicago, Pres.

KEWANEE, ILL.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Kewanee, Ill., to V. JOBST & SONS, Peoria, Ill., at $47,965.

MILWAUKEE, WIS.—The Trustees of the Children's Free Hospital have purchased a building site, 113 × 168 ft., at Tenth and Wells Sts., for $15,000. It is planned to erect a hospital to cost from $50,000 to $75,000, probably next fall.

An ordinance will be introduced into the Common Council authorizing the Board of Public Works to erect a station for the benefit of existing interurban electric railway lines and such companies as may be permitted to enter the city in the future. It is proposed to purchase the block bounded by Fifth, Sixth, Wells and Cedar Sts., and erect a reinforced concrete structure, one story high, at a cost of $150,000 to $200,000.

Ferry & Clas, Archs., 419 Broadway, awarded general contract on $60,000 brick and stone apartment house, to be erected for Patrick Cudahy Family Co., at Prospect Ave. and Kane Pl., to PAUL RIESEN & SON CO., University Bldg.

The Board of Public Works has issued a call for competitive sketch plans and outline specifications for the construction and erection of a fire engine house (central station) at Broadway and Martin St. Size of site 120 × 120 ft. Cost, not to exceed $100,000. Charles J. Poetsch is City Engr.; T. A. Clancy, Ch. Engr., Milwaukee Fire Dept.

Brust & Philipp, Archs., Camp Bldg., Milwaukee, have completed detail plans and specifications for proposed Detention Home and Juvenile Court building, Eleventh and Galena Sts., to cost $75,000. It will be of reinforced concrete construction, 120 × 60 ft. The County Board of Supervisors will take final action in about ten days. Frank O. Phelps is County Clerk.

KENOSHA, WIS.—The Board of Public Works has awarded contract for erecting the proposed Third Ward school building to J. P. CULLEN CO., of Janesville, Wis., at $43,185.

SHENANDOAH, IOWA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has rejected as in excess of the appropriation the bids of the post-office building at Shenandoah, Iowa.

MARSHALLTOWN, IOWA.—The general contract for the erection of the 4-story Masonic Temple here has been let to W. J. LONGCOR, of Red Wing, Minn. A. F. Gauger, Bank of Minnesota Bldg., St. Paul, Minn., is Arch. R. A. Elzay is Chn. Bldg. Com. Cost, $45,000.

ST. PAUL, MINN.—The Board of School Inspectors, C. W. Gordon, City, Pres., is taking bids on the construction of a 3-story pressed brick and cut stone, fireproof Mechanic Arts High School, to be built at Central Ave. and Robert St. No date has been set for closing of bids. Rankin, Kellogg & Crane, 1012 Walnut St., Philadelphia, Pa., are Archs. Cost, $300,000.

Thomas Green, Ch. Engr. of the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co., Minneapolis, Minn., is receiving bids for the construction of a 1-story pressed brick and cut stone, fireproof freight house, to be built at Seventh and Neill Sts., city. It will be 50 × 500 ft., having slate roof, Turner reinforced concrete fireproof system. Cost, $75,000.

Reed & Stem, Archs., 601 Endicton Bldg., are preparing plans for a central police station to be built on Market St., between Third and Fourth Sts., for the Board of Police Commissioners, C. H. Haas, Pres. It will be three stories high, of cut stone, fireproof construction, containing a municipal court, jail and offices. Cost, $125,000.

FORT LEAVENWORTH, KAN.—Bids are asked until 11 a. m., June 14, by Capt. William D. Davis, Q. M., for the construction, plumbing, heating, electric wiring and fixtures of an addition to hospital at Fort Leavenworth, Kan.

LEAVENWORTH, KAN.—Bids are asked by R. V. La Dow, Supt. of Prisons, Dept. of Justice, Washington, D. C., until 10 a. m., June 26, for furnishing and delivering at the U. S. Penitentiary, Leavenworth, Kan., structural steel.

HUTCHINSON, KAN.—E. L. Masqueray, Arch., St. Paul, Minn., is drawing plans for a pressed brick and cut ctone Roman Catholic church, to be built here. Rev. P. Farrell is Pastor. Cost, $40,000.

GREAT FALLS, MONT.—The plans for the proposed hotel ,which will have 150 rooms and will be first class in every particular, are being prepared and will be ready to submit to bidders probably soon. The site recently purchased is being vacated and cleared for the erection of this hotel.

TEXARKANA, TEX.—Bids were received as follows on June 1, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Texarkana, Tex.: Joseph Trimby, Chattanooga, Tenn., $129,900; King Lumber Co., Charlottesville, Va., $113,400; General Construction Co., Milwaukee, Wis., $111,845; Blue Ridge Construction Co., Asheville, N. C., $105,000; James Devault & Son, Canton, Ohio, $103,900; Globe Construction Co., St. Louis, Mo., $114,600; C. L. Gray Construction Co., St. Louis, $112,400; M. Yeager & Son, Danville, Ill., $100,552; T. R. Wright, Dallas, Tex., $106,000; George Moore & Sons, Nashville, Tenn., $104,700; John Bardon, Fort Worth, Tex., $118,500.

OKLAHOMA CITY, OKLA.—The J. I. Case Plow Co., Racine, Wis., awarded contract for erecting a $35,000 warehouse, 55 × 120 ft., at Oklahoma City, to MARTIN CARROLL, of Kansas City. The building will be of reinforced concrete construction.

TACOMA, WASH.—Bids are asked until noon, June 15, by C. B. Hopkins, U. S. Marshal, for the steel work necessary for the erection and completion of the cells in the new wing at the U. S. penitentiary, McNeil Island, Wash. Proctor & Farrell are Archs., National Bank of Commerce Bldg., Tacoma.

Plans are being completed by Reed & Stem, Archs., St. Paul, Minn., for the general construction of a passenger station here for the Northern Pacific Ry. W. L. Darling, St. Paul, Minn., is chief engineer. It will be three stories and fireproof throughout. Cost, $500,000.

REDLANDS, CAL.—University of Redlands will erect a reinforced concrete educational building on East Colton and University Sts. Cost, $61,600.

LOS ANGELES, CAL.—The Central Broadway Building Co. will erect a $100,000 building on South Hill St., between Sixth and Seventh Sts. S. Tilden Norton, Arch., Byrne Bldg., has been engaged to draw plans.

Charles O. Bergelin, Arch., Bumiller Bldg., is completing plans for the 4-story Fiesta Club apartment building to be erected at Pico and Hope Sts., by Victor Ponet at a cost of about $90,000. It will be a combination steel frame building with pressed brick front. The basement and one-half of the first floor will be arranged for use by a Turkish bath establishment, the reception hall and offices of which will occupy the remainder of the first floor, excepting a spacious lobby which will have marble walls, tile floor and stucco ornamentation. The exterior of the main entrance will be decorated with cut stone. On the second floor there will be offices, an auditorium and 26 bedrooms for men. The third floor will contain 28 rooms and the fourth 44, arranged in apartments.

The contract for the erection of the main building of the new produce market at Sixth and Alameda Sts., has been awarded to the EUREKA BUILDING CO., 940 East Fourth St., by the Los Angeles Market Co., at a stated cost of $100,000. The specifications call for the erection of a brick and steel building, 1125 ft. in length, fronting on the south side of East Sixth St. The central section of the building is to be two stories in height. The entire ground floor will be devoted to market stalls, of which there will be 216, equipped for handling produce. The second story is to contain two restaurants, a barber shop, two large rooms with all modern conveniences for club purposes, the offices of the market company and 17 smaller offices. To the south of this will be the spur tracks of the Southern Pacific, the Santa Fe and the Pacific Electric, extending the entire length of the property in the rear, a distance of 1,280 ft. The contract for the erection of the receiving sheds and shipping houses to be built along the spur tracks for the convenience of commission men will be awarded later.

WINNIPEG, MAN.—NORCROSS BROS., of Worcester, Mass., have been awarded the contract for constructing the proposed building of the Royal Bank. Cost, $200,000. Plans were prepared by E. G. Bird, Toronto, Ont.

NINETTE, MAN.—The bid of WILLIAM BELL, of Brandon, Man., has been accepted for the provincial sanitarium to be erected here. Cost, $51,000.

SASKATOON, SASK.—Plans prepared by W. W. Chance, Arch., for the Nutana school have been accepted and tenders will be called at once for construction. Estimated cost, $48,000.

It is stated that S. BROWN, of Winnipeg, Man., has secured the contract for the Bank of Montreal bank building here.

The CARTER-HALLS-ALDINGER CO., of Winnipeg, Man., have been awarded the contract for the International Harvester Co.'s warehouse to be erected here, at $76,000.

EDMONTON, ALTA.—CHARLES MAY, of Edmonton, has been awarded the contract for the erection of an apartment block for Rene Lemarchand, of Edmonton, according to plans prepared by A. M. Calderon, Arch., of Edmonton. Cost, $142,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BARRE, VT.—Bids are asked until June 29 by the city for the construction of a reservoir of 42,000,000 gallons capacity, and work incidental thereto. George A. Reed is City Engr.

MARBLEHEAD, MASS.—Contracts for the new filtration plant to be erected at Leggs Hill have been let as follows. Purification plant to RYAN, UNMACK CO., New Haven, Conn., at $8,900; special castings, LAMSDEN & VAN STONE CO., Troy, valves, gate boxes, gate stands and stems to the DARLING PUMP MFG. CO., Williamsport, Pa.

AMHERST, MASS.—The House has passed the bill authorizing the Amherst Water Co. to issue $50,000 additional stock, for an additional reservoir and to protect the watershed supply.

*SPRINGFIELD, MASS.—We are officially advised that bids were received on June 2 by the Board of Water Commissioners for laying 30-in. steel or c.-i. pipe under the bed of the Connecticut River, Contract No. 6, Little River Water Supply: The T. A. SCOTT CO., New London, Conn., $83,800; MacArthur Bros. Co., 11 Pine St., New York, $89,824; Hiram W. Phillips, Quincy, Mass., $150,000 and $154,000; Charles A. Haskin, 11 City Sq., Charlestown, Mass., $59.79 per ft. and $69 per ft.; Charles R. Gow Co., 79 Milk St., Boston, Mass., $75,000.

HARTFORD, CONN.—The House has passed the bill authorizing this city to issue $2,000,000 of water bonds.

NEW BRITAIN, CONN.—The Board of Water Commissioners have instructed the City Engineer to prepare plans for raising the dam at Shuttle Meadow and for building a reservoir at Burlington.

*AUBURN, N. Y.—Bids will be received by C. A. Koenig, Mayor, until 8 p. m., June 15, for the construction of a disposal works to consist of grit chambers, the building above them, reduction tanks, dosing chambers, four filter beds, gate-house, automatic feeds and discharges for the filters, necessary chambers, connections and attachments In letting the contract the work will be divided as follows: Item (1) includes automatic feeding and discharging appliances for the filters; item (2) includes all work and material not mentioned to be done or furnished under Item 1.

TROY, N. Y.—The contract for furnishing c.-i. pipe for use in the water-works department was awarded to CHARLES MILLER, SON & CO., by the Board of Contract and Supply, on May 25, at $22.50 per ton for 6 and 8-in. pipe and $50 per ton for specials.

NEWBURGH, N. Y.—The citizens on May 20 voted to issue bonds for water-works improvements, including the laying of a 24-in. main from Washington Lake to Newburgh. Curtis Stanton is Supt.

GOVERNOR'S ISLAND (New York post-office), N. Y.—Bids will be received until June 15 by I. W. Littell, D. Q. M., Ch. Q. M., U. S. A., for building shelter, installing fire pump and extension of salt water mains.

BROOKLYN, N. Y.—The Board of Estimate on May 28 appropriated $750,000 for the extension of high-pressure service in South Brooklyn.

BROOKLYN, N. Y.—Bids are asked until June 23 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, New York, for hauling and laying water-mains and appurtenances in Kings Highway, Ave. L, East 36th St. and East 32d St., Boro. of Brooklyn.

NEW YORK, N. Y.—Bids were received as follows on June 3 by the Board of Contract and Supply for Contract 20, for the construction of the Heedna siphon, a deep pressure tunnel in rock, located in the towns of New Windsor and Cornwall, Orange County: Mason & Hanger, Richmond, Ky., $3,492,511; Buffalo Dredging Co., $3,951,815; Degnon Contracting Co., $3,857,595; Anthony C. Douglas, $3,746,745; American Pipe & Constructing Co., $3,651,536; Bradley Contracting Co., $3,497,000; George W. Jackson, Inc., $3,764,265; Drave & Flinn, $3,741,285; Rinehart & Dennis Co., Colorado Bldg., Washington, D. C., $3,978,280.

The bid of the Hanover Contracting Co., 215 West 125th St., New York, for furnishing and laying water mains in Long Island City, Flushing, Douglaston and Whitestone, Queens Borough, was erroneously stated on June 3 as $103,786 instead of $75,526.

CAMDEN, N. J.—Bids will be received by the Water Commissioner, John S. Broome, Chn., until June 16 for furnishing about 20 8-in. pure copper Cook well-screens, about 2,200 ft. 8-in. and 500 ft. of 6-in. w.-i. pipe; yearly requirement of water meters, pipe and specials, fire hydrants, street main gates, etc.

*READING, PA.—Bids were opened by the Board of Water Commissioners on May 25 for furnishing and delivering 38,300 tons of filter sand. Contract was awarded to C. D. MILLER & SON, of Reading, at $40,215.

NAYAUG, PA.—Plans are being considered by the Delaware, Lackawanna & Western R. R. Co. for building a storage reservoir with a capacity of 25,000,000 gallons at Nayaug. Four artesian wells are in operation here and the company expects to sink ten or twelve wells before Jan. 1, erect a pumping station and build a pipe line.

THOMASTON, ALA.—It is proposed to construct a water-works system here. Estimated cost, about $5,000. W. K. Chapman is Mayor.

*BOWLING GREEN, KY. ROBERTS FILTER MFG. CO., Philad[elphia], Pa., has been awarded contract by [city for a] 3,000,000-gallon filter plant, [include six 8] × 25-ft. filters, exclusive of [dation and] building. Other bids receiv[ere as fol]lows, (a) including six 8 × 2[filters, (b)] six 8 × 20-ft. filters, (c) six[18-ft. fil]ters: Pittsburg Filter Mfg. [Pittsburg,] (a) $15,480; W. B. Scaife & [Pittsburg,] (c) $11,365; New York Co[ital Jewel] Filtration Co., New York, [$19,000.] Roberts Filter Mfg. Co., Ph[hia, Pa.,] (b) $9,329; Greer Filter Mfg [Pittsburg,] (b) $9,458; American Water[ener Co.,] Philadelphia, (a) $16,071; Ph[phia Wa-] ter Purification Co., Philadelph[$16,948.]

*LOUISVILLE, KY.—We are [ially ad-] vised that bids were received [the Louis-] ville Water Co., as follows, o[ne I. for] constructing a coagulating ba[ate-house] and appurtenances: Henry Bick[Louis-] ville, Ky., $130,713; Ohio Conc[Co., Cin-] cinnati, Ohio, $114,405; Fruin[ton Con-] struction Co., St Louis, Mo., $1[; Amer-] ican Engineering & Const. Co.,[ago, Ill.,] $133,246; Ferro Concrete Const[ion Co.] Cincinnati, Ohio, $120,875; M. [McGovern] Company, Chicago, Ill., $131,[Alfred] Struck Company, Louisville, K[$104,642.] Webster Gazley is Associate Engr.

CHICAGO, ILL.—Bids will be [ived un-] til June 21 by William McLaren, [and 104th] Ser., for the standpiping for the [Holly] tion system in the County Court H[Mfg. Co.,] bird & Roche are Archs., 1618 [$283,000.] Bldg.

Bids for the pumping machinery [the new] Roseland station, Stewart Ave. [Co.,] St., were opened on May 27 as follo[Allis-] Chalmers Co., Milwaukee, $259,9[Steel Co.,]

EAU CLAIRE, WIS.—Bids will be received until June 16 for the construction of a reservoir. Estimated cost, $12,000.

PERSIA, IOWA.—Bids will be received until June 15 by Charles Purnell, City Clk., for constructing water-works.

ANTHONY, KAN.—We are officially advised that the J. S. Worley Co., Reliance Bldg., Kansas City, Mo., has made a report to the council regarding the development of a new water supply, which work is being carried out.

KENNARD, NEB.—Bids will be received until June 15 by the village for the construction of water-works, from the plans of C. P. Chase, of Clinton, Iowa. Estimated cost, $7,500.

VERMILLION, S. DAK.—Bids are asked until June 14 by C. A. Sloan, Secy. Regents of Education, for the installation of a water system for fire protection and other purposes on the campus of the University of the State of South Dakota.

PORT YELLOWSTONE, WYO.—Bids are asked until 1 p. m., June 12, by Lieut. G. C. Smith, Constructing Q. M., U. S. A., Fort Yellowstone, for constructing a reinforced concrete reservoir for hydroelectric power plant at this post.

PARIS, TEX.—The ROBERTS FILTER MFG. CO., Philadelphia, Pa., has been awarded contract for constructing the proposed filtration plant. Estimated cost, $10,000.

ATLANTA, TEX.—The Fountain-Shaw Engineering Co., of Houston, has been selected to prepare plans for the proposed water-works. Estimated cost, $15,000. Hugh Carney is City Secy.

CORPUS CHRISTI, TEX.—We are officially advised that the J. W. MAXCY CO. has been given a contract for the design and construction of the water-works extension at Corpus Christi, at about $90,000.

McALESTER, OKLA.—D. F. HEALY, Coffeyville, Kan., has been awarded contract by the city, at $23,599, for constructing water main extensions. Bids were opened on May 24.

FORT COLLINS, COLO.—Bids, including specifications, will be received by Robert S. Feeder, City Clk., until June 21 for constructing a filtration plant in connection with the water-works, bids to be submitted on both slow-sand and mechanical filters for a capacity of 4,000,000 gallons per day.

BOULDER, COLO.—Contract for the construction of a sectional, concrete water pipe line, 36 ins. in diameter and twelve miles in length, has been awarded to ARTHUR S. BENT, Central Bldg., Los Angeles, Cal., by the East Colorado Power Co., Denver, Colo. It will be a gravity line, which will convey Boulder Canyon, to the company's power water from Barker Dam, at the head of plant near Boulder. The sections of the pipe will be manufactured in the canyon and then hoisted to the mountain side, where they will be placed and connected.

SUNNYSIDE, WASH.—Bids will be received until June 14 by the Town Clk. for the construction of a system of water-works.

MOUNT VERNON, WASH.—The Skagit Valley Water Co. will begin the installation of the proposed gravity water system. The company is incorporated for $250,000. Sidney Smith is Pres.

KENT, WASH.—This place is considering establishing a water system. Estimated cost, $60,000.

WILSON CREEK, WASH.—The Round Lake Irrigation Co. has been incorporated by H. W. Mangold, C. G. Pence and H. O. Wing, of Spokane, with a capital of $200,000, and has secured large holdings in fruit lands and water rights on Crab Creek and Round Lake. A town site has been platted.

SACRAMENTO, CAL.—The American Canyon Water Co. has been incorporated with a capital of $1,000,000, by W. O. Bowers and A. L. Darrow, of Sacramento; J. H. Puffum, of Fairoaks, and others, and the American Irrigation Co. has been incorporated with a capital of $250,000, by George P. Robinson and H. A. Buffum, of Fairoaks, and F. L. Atkinson, of Sacramento. The above com-

panies have decided to take over the North Fork Ditch Co.'s holdings and the Fairoaks water system corporation through the California and developed.

NEWMAN, CAL.—Bids are asked until June 2[illegible] by the Newman Water-Works Co. for a steel tank and tower, capacity of tank 100,000 gallons, tower 100 ft. high. Contractors may forward own designs or bid on plans, to be had from Charles E. Sloan, Newman.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NORTH ATTLEBORO, MASS.—The Finance Committee on May 25 approved an appropriation of $250,000 for the expenses and liabilities being incurred by the installation of a sewerage system. Notes or bonds will be issued.

NEW HAVEN, CONN.—The following are the bids opened on May 17 by the Board of Public Works for a trunk sewer in River and South Front Sts., about ¼ mile in length: Dwyer & Mannix, $28,133; Ryan Unmack Co., $30,597; Thomas F. Maher, $31,320; Lawrence O'Brien, $34,910; F. A. Brazos, $39,271.

HARTFORD, CONN.—Bids have been received by the Board of Contract and Supply for building 75 catch basins. (a) duplex brick, (b) duplex concrete, (c) stone cover on brick, (d) lumber, (e) rock excavation, (f) concrete A, (g) concrete B, (h) stone cover on concrete, (i) 10-in. tile, (j) Y or T connections: F. B. & W. H. O'Neil, Hartford. (a) $36, (b) $35, (c) $35, (d) $30, (e) $3, (f) $7, (g) $6, (h) $33, (i) $1.10, (j) 70 cts.; Charles H. Slocomb, Hartford, (a) $47, (b) $44, (c) $41, (d) $30, (e) $3, (f) $7, (g) $6, (h) $40, (i) $1, (j) 60 cts.; Bernardino & Silvestri, Hartford, (a) $48, (b) $49, (c) $44, (d) $30, (e) $3, (f) $7, (g) $6, (h) $45, (i) $1, (j) 60 cts.; Hartford Paving & Construction Co., Hartford, (a $52, (b) $58, (c) $58, (d) $30, (e) $3, (f) $7, (g) $6, (h) $58, (i) 75 cts., (j) 60 cts.

*OSWEGO, N. Y.—Bids are asked by the Department of Public Works, until 2 p. m., June 28, for the construction of a proposed sewer along the general line of Tenth St. Creek and in East Eleventh St. to the lake in the Second, Fourth, Sixth and Eighth Wards. Plans of the above work will be exploited and specifications may be obtained at the office of the Department of Works. John Smith is Comr.

NEW YORK, N. Y.—Bids will be received until June 15 by Louis F. Haffen, Pres. Borough Bronx, for constructing sewers in 237th St. and Teller Ave.

NORWICH, N. Y.—Bids will be received by the Board of Sewer Commissioners until June 22 for the construction of about 1,200 ft. of 8-in. sewers. E. F. Musson is City Engr.

MOUNT KISCO, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, New York, until 2 p. m., June 23, for furnishing all the labor and materials required to construct and erect a pumping station and sewage disposal plant at the village of Mount Kisco.

WOODLYNNE, N. J.—The plans of Clyde Potts, 17 Battery Pl, New York, for a sewage disposal plant for the Borough of Woodlynne, has been approved by the State Department of Health.

RIDGEWOOD, N. J.—Bids will be received at the office of the Village Clerk until 8.30 p. m. as follows:

For furnishing all material and doing all necessary work for the complete construction of about 18,000 ft. of pipe sewers from 8 to 10-in. diameter, together with flush tanks, manholes and other appurtenances; for furnishing all material and constructing complete a sewerage pumping station, together with about 3,300 ft. of 6-in. force main; for furnishing all material and constructing complete a settling tank and screening chamber. H. J. Harder is Village Engr.

*WESTFIELD, N. J.—Bids are asked by the Council until 8.15 p. m., June 28, for constructing sanitary sewers and appurtenances. Lloyd Thompson is Town Clk.

*INDIANA, PA.—Bids are asked until 7.30 p. m., June 21, by the Borough for laying 2,317 ft. of 12-in., 4,045 ft. of 10-in., 4,820 ft. of 8-in., and 4,995 ft. of 6-in. pipe sewers, eleven manholes and eleven flush-tanks. Thomas Pealer is Boro. Engr.

HARRISBURG, PA.—The Select Council has passed an ordinance providing for the construction of sewers in Division and Lexington Sts.

*DORRANCETON, (Wilkes-Barre postoffice), PA.—Bids will be received by the Town Council until 7 p. m., June 15, for the construction of a main outfall sewer of reinforced concrete pipe along and through lands of Benjamin Dorrance and others from Wyoming Ave. to the Susquehanna River. F. L. Olds is Chn.

BALTIMORE, MD.—The Park Heights Development Co., 301 St. Paul St., contemplates the construction of a sewage disposal plant for Arlington and vicinity.

WASHINGTON, D. C.—Bids were opened by the Commissioners of District of Columbia, on May 24 for the East Side intercepting sewer, Section E. contract was awarded to W. F. BRENIZER, of Washington, as follows: 2,470 lin. ft. ordinary excavation, $0.90; 75 cu. yds. sewer brick masonry, $20; 380 cu. yds. concrete masonry, Class D. $11, 150 lin. ft. invert brick masonry, $25. Total, $39,383. E. G. Gummel, of Washington, bid for this work $40,025.

Bids were opened same time and place for Rock Creek sewer from Broad branch to Military Road. E. G. GUMMEL, of Washington, was awarded contract as follows: 4,000 cu. yds. excavation, 50 cts.; 10 cu. yds. sewer brick masonry, $14; 8,450 lin. ft. 18-in. sewer pipe, 85 cts. Total, $9,322. Other bids were: W. F. Brenzier Co., $9,625; R. J. Beall Co., $10,265; J. A. Coyle, $10,545; Stutter & Ready, $10,585; Lyons Bros., $12,065, bidders all of Washington. Asa E. Phillips is Supt. of Sewers.

ROANOKE, VA.—Bids are asked until noon, June 19, by R. H. Wills, City Clk., for constructing a sewer in Walker Ave. Gregory Ave., and Second St. W. B. Bates is City Engr.

EDENTON, N. C.—The city is considering the construction of a sewer system and desires to correspond with sanitary engineers. E. R. Conger is Mayor.

DE FUNIAK SPRINGS, FLA.—The city has voted $8,000 of sewer bonds.

KNOXVILLE, TENN.—LONG & PRICE, of Knoxville, have been awarded contract to construct a sanitary sewer in Thompson St.

CLEVELAND, OHIO.—The Council on May 24 passed an ordinance authorizing an expenditure of $325,000 to complete the intercepting sewer.

STRUTHERS, OHIO.—Bids will be received until June 20 by L. S. Creed, Village Clk., for constructing sewers in Bridge and State Sts., and a storm water sewer through prtvate property.

JACKSON, OHIO.—Bids are asked until noon, June 29, by Daniel L. Lewis, Village Clk., for the construction of a sewage pumping station, consisting of brick house, pump well, and two centrifugal pumps, of 250 gallons capacity per min. with power to operate same. J. W. Turner is Engr.

LAPORTE, IND.—The Common Council on May 24 selected Prof. R. L. Sackett, of Purdue University, of Lafayette, to prepare plans and specifications for a sewer system and purification plant. Estimated cost, $250,000.

RICHMOND, IND.—Bids were opened on May 26 for the construction of about 5,055 ft. of sewers. The contract has been awarded to PHILIP HIPSKIND & SONS, of Wabash, at $3.38 per lin. ft. for the work complete. Other bids were as follows, price given per lin. ft. Lewis Hall, Delphi, $3.49; William H. Boyd, Dayton, Ohio, $4.09; J. F. Cronin, Richmond, $3.95; Michaels & Minnick, Marion, $4.15; W. H. Harris, Terre Haute, $4.70.

JOLIET, ILL.—ROSS & CURTIS have been awarded contract by the Spring Creek Commissioners for the improvement of the north end of Spring Creek by excavating and tiling, at $24,066. The firm will lay the sewer pipe of all dimensions at $12,343, and concrete pipe work at $11,713.

HARVARD, ILL.—Bids will be received until June 12 by the Board of Local Improvements, J. H. Vickers, Pres., for constructing a system of sanitary sewers and a sewage purification plant consisting of about 45,842 ft. of 18, 15, 12, 10, 8 and 6-in. tile pipe, 155 manholes, 10 flush tanks, a settling tank and six sand filter beds. W. S. Shields is Engr., 1201 Hartford Bldg., Chicago.

WATERTOWN, WIS.—W. F. BRUNT, Hammond, Ind., has secured contract at about $12,442 for constructing sanitary and storm sewers for the city. Noted on May 27, Arnold Kraeft is City Engr.

NEW LONDON, WIS.—Bids will be received, it is stated, by N. R. Demming, City Clk., until June 15 for constructing the Shawano St. sewer.

WATERLOO, IOWA.—Bids will be received until June 14 by the city for the construction of a system of sewers. C. T. Wilson is City Engr.

ST. PAUL, MINN.—Bids are asked by the Board of Public Works until June 15 for the construction of the Prior Ave. sewer system, so-called. It will be about five miles long. L. W. Rundlett is City Engr. Estimated cost, $75,000.

INDEPENDENCE, KAN.—H. C. GASS, Belleville, Ill., has been awarded contract at $17,999, for constructing a septic tank and a sewage disposal plant. Bids were opened on May 27.

WICHITA, KAN.—We are officially advised that bids will soon be asked for a sanitary sewer system, and also for extending storm water sewer laterals from their present outlet to the new drainage canal. The bids will be received separately for main sewer, sub-mains and laterals of the sanitary sewer system. Probable cost of the main, $100,000. The sizes as planned are 45-in., 42-in., 36-in., double ring brick; 36, 30, 24, and 21 and 18-in. vitrified tile. Probable cost of extending the storm water sewer laterals, $50,000. The sizes for these will be 60, 57, 48 and 36-in. double-ring brick; 30-in. single-ring brick and 21 and 18-in. vitrified tile. Bert E. Wells is City Engr.

CHADRON, NEB.—The citizens voted on May 25 to issue $25,000 of bonds for a sewer system. Bids for construction will be received about July 1. G. E. Marriott is City Clk.

ABERDEEN, S. DAK.—Bids will be received until 8 p. m., June 25, by F. W. Raymond, City Audr., for constructing about 15,500 ft. of 15, 12, 10 and 8-in. pipe sewers.

CORPUS CHRISTI, TEX.—The city has engaged J. W. Maxcy & Co., Houston, Tex., to make a survey and supervise the construction of a sewer system.

KINGFISHER, OKLA.—Bids will be received until June 14, by the city, for pipe sewers, from the plans of Burns & McDonnell, Scarritt Bldg., Kansas City, Mo.

OKMULKEE, OKLA.—H. H. FITZGERALD & CO., Muskogee, Okla., has secured contract at $9,425, for constructing additional sewers for this city.

LAS ANIMAS, COLO.—McGOVERN & CO., Muskogee, Okla., have secured contract at $9,425, for constructing additional sewers for this city.

SEATTLE, WASH.—C. J. Erickson, on May 28, submitted to the Board of Public Works, the lowest bid for the Lake Union section of the North Trunk sewer system, at $534,978. This section will extend from an intersection with the University section to a point near Ross. The other bidders were: Grant Smith & Co., $676,986; Black Bros., $878,192; Puget Sound Bridge & Dredging Co., $723,533; Krogh & Jessen Co., $682,059; Stirrat & Goetz, $555,401; International Contract Co., $800,467. R. H. Thomson is City Engr.

MONROVIA, CAL.—Olmstead & Gillelen, Engrs., 604 Wright & Callender Bldg., Los Angeles, are preparing plans for a municipal sewerage system to be installed here. Estimated cost, $100,000.

PROVO, UTAH.—J. D. HANLEY, Salt Lake City, Utah, has been awarded contract at $11,911, for constructing sewers in District No. 11. The work includes 3,894 ft. of 12-in. vitrified clay sewer with average depth of 11.4 ft.; 2,211.8 ft. of 10-in. sewer, average depth 8.7 ft.; 2,467 ft. of 6-in. sewer, average depth 8.9 ft.; 14 manholes, nine cleanout pipes 4-in. diameter; manholes to be of concrete with 400-lb. c.-i. covers.

NORTH TORONTO, ONT.—Plans have been completed, it is stated, for the reconstruction of a sewer system and a sewage disposal plant. Cost, $130,000.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

CONCORD, N. H.—Bids are asked by A. W. Dean, State Engr., Concord, until 5 p. m., June 17, for bituminous macadam in Nashua. Estimated cost, $10,000.

*BOSTON, MASS.—Bids are asked until 2.30 p. m., June 21, by the Charles River Basin Commission for surfacing and grading Sections 2, 3 and 4 of the Boston embankment, which sections extend along the Boston side of the Charles River from Berkeley St. to Charlesgate West. Hiram A. Miller is Ch. Engr.

HARTFORD, CONN.—Plans for the construction of state road work have been received in the office of the State Highway Commissioner, as follows: From A. B. Alderson, Engr., in town of Bloomfield, 6,400 lin. ft. on the North Bloomfield Road, 2,700 lin. ft. on the Hartford Road and 3,100 lin. ft. on the Simsbury Road. In town of Burlington, 10,000 lin. ft. on the main highway; in town of Farmington, 4,200 lin. ft. From Samuel H. MacKenzie, Engr., 1,200 lin. ft. on the Wolcott Mountain Road.

NORTH TONOWANDA, N. Y.—The Board of Public Works on May 24 awarded contract for paving Vandervoort St. with Bessemer shale brick to LOUIS H. GIPP CONSTRUCTION CO., Morgan Bldg., Buffalo, at $24,517.

ALBANY, N. Y.—The bids received on June 7th by the Board of Contract and Supply for street improvement were: For the improvement of Clinton Ave.: Mulderry Bros., Albany, $45,165; Edward F. Dillon, Albany, $50,242; Morris Kantrowitz, Albany, $45,469; Michael F. Dollard, Albany, $45,963. For the improvement of Yates St.. Mulderry Bros., $9,578; John M. Holler, Albany, $9,968; Holler & Shepard, Albany, $9,788; Edward F. Dillon, $9,156; Michael F. Dollard, $8,887. For the improvement of Morris St., from New Scotland Ave. to Robin St.: Mulderry Bros., $9,833; John M. Holler, $10,302; Holler & Shepard, $10,237; Edward F. Dillon, $9,610; Michael F. Dollard, $8,652. Walter Melius is City Engr.

OSWEGO, N. Y.—Bids will probably be asked in July for paving West First St. with brick, about 5,000 sq. yds. Estimated cost, about $16,000. Charles H. Snyder is City Engr.

TROY, N. Y.—The Board of Contract and Supply awarded contract, bids opened on May 18, for paving 15th St. with bituminous concrete, to the WARREN BROS. CO., 93 Federal St., Boston, Mass., at $50,121.

NEW YORK, N. Y.—Bids were received, as follows, on June 1 by John F. Ahearn, Pres. Boro. of Manhattan, for furnishing materials and performing the work of building an extension and improvement of that part of Riverside Drive lying between the north and south boundaries of Fort Washington Park (land owned by the city of New York), together with all work incidental thereto: J. C. Rodgers, 121 West 125th St., $625,037; J. E. Gafney, 1 Madison Ave., $683,125; Henry B. Reed, 1 West 72d St., $744,055; James Pilkington, Leggett and Garrison Avs., $793,928.

NEW YORK, N. Y.—Bids are asked until 3 p. m., June 17, by the Park Board for furnishing and delivering Roa Hook gravel or gravel of equal quality on parks and parkways, Borough of Manhattan.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., June 23, by Bird S. Coler, Boro. Pres., for regulating and grading and repaving various streets with granite block and asphalt pavement on a concrete foundation.

*NORTHPORT, N. Y.—Bids will be received by the Board of Trustees until 2 p. m., June 17, for grading, paving and curbing Main St., from Norwood Ave. to Waterside Ave. Israel Carll is Village Clk.

LONG ISLAND CITY (L. I.), N. Y.—Bids are asked by Lawrence Gresser, Pres. Queens Boro., until 11 a. m., June 16, for regulating, grading and repaving with macadam the roadways of several streets; also laying concrete cement sidewalks, flagging sidewalks, furnishing asphalt road oil and tar road oil.

NEW BRIGHTON (S. I.), N. Y.—Bids were received on June 1 by George Cromwell, Pres., Boro. of Richmond, for furnishing all the labor and materials required for regulating and repaving with wood block pavement on a concrete foundation the roadway of Heberton Ave., from Post Ave. to Elizabeth St., together with all work incidental thereto: Uvalde Asphalt Paving Co., 1 Broadway, New York, $22,360; Barber Asphalt Paving Co., 30 Church St., New York, $24,634; U. S. Wood Preserving Co., $23,321; Joseph Johnson's Sons, $26,108.

AMSTERDAM, N. Y.—Bids are asked until June 15 by the city for paving East Main St. with 7,200 sq. yds. of fireclay brick. Contract was to have been awarded June 1, but was postponed. T. J. Hazlett is City Clk.

NEWARK, N. J.—The JERSEY PAVING CO., 622 Union Boulevard, is stated to have been awarded contract for paving Nevada and Parker Sts., at $3,033 and $8,632, respectively.

BAYONNE, N. J.—The Boulevard Commission of Hudson County, Jersey City, opened bids as follows on May 27 for reconstructing roadway of Hudson Boulevard in Bayonne: Uvalde Asphalt Paving Co., 2 Green St., Jersey City, $44,950; New Jersey Construction Co., $30,525; Van Keuren & Son, Grand and Prior Sts., Jersey City, $33,425; William Baker, 137 South St., Jersey City, $23,250; Empire Construction Co., $20,925.

Bids were opened at same time for constructing concrete curb and gutter, reconstructing and reinforcing the drainage system of certain sections of the Boulevard, as follows. Commonwealth Roofing Co., $21,165; Adolph Eyferth, $17,641; Carrington Construction Co., $16,828; Henry Hahn, $15,607.

*HACKENSACK, N. J.—Bids for macadamizing and improving the Bellevue Turnpike, in the Counties of Hudson and Bergen, beginning at the Saw Mill Creek, and extending to the Passaic River, will be received by the Joint Committee of the Counties of Hudson and Bergen, at the office of the Clerk of the Board of Chosen Freeholders of the County of Bergen, Court House, Hackensack, until 1 p. m., June 28.

SMYRNA, DEL.—The town Council has awarded to AMBLER, DAVIS CO., 14 South Broad St., Philadelphia, the contract for paving Main St. with Patten block, at $1.95 per sq. yd.

ROCKVILLE, MD.—Bids will be received until June 11 by the Board County Commissioner, Robert G. Hilton, Clk., for macadamizing about one mile of the Redland Road, and one mile of the Poolesville Road, Section 4.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia, until noon, June 19, for grading and improving suburban streets and avenues in the District of Columbia.

KENOVA, W. VA.—The city has voted $40,000 of bonds for paving two miles of street, brick cement curb and gutter; M. W. Venable, Charleston, W. Va., is in charge of the preliminary work.

HINTON, W. VA.—The city has voted $25,000 additional bond issue for street paving. Total cost, about $75,000. S. B. Hamer is Mayor.

BRADENTOWN, FLA.—Bids will be received by the Board Trustees, A. J. Beck, Secy., until June 25 for street paving, requiring vitrified brick, macadamized and crushed stone and marl mixture.

EAST LAKE, ALA.—Bids are asked until June 12 by the city for constructing 39,000 sq. yds. chert macadam pavement, 3,900 sq. yds. cement sidewalks, 33,700 lin. ft. combined curb and gutter, inlets, drains, etc. T. E. Huey is City Engr.

KNOXVILLE, TENN.—Contracts for paving were awarded on May 25 by the city as follows: To the BARBER ASPHALT CO., of Cincinnati, Ohio, for 75,000 sq. yds. asphalt on concrete base, at $1.68 to $1.87 per sq. yd.; to R. S. BLOME CO., Chicago, Ill., for 5,000 sq. yds. granitoid pavement, at $1.88 per sq. yd.; to the SOUTHERN PAVING & CONSTRUCTION CO., of Chattanooga, Tenn., for 20,000 sq. yds. brick pavement on concrete base, at $2.09 to $2.23 per sq. yd.

*ASHLAND, KY.—Bids will be received by E. A. Shepard, City Clk., until 7 p. m., June 14, for furnishing all material for and the construction of vitrified brick pavements, concrete curb and gutter, etc. J. A. Mathewson is Mayor.

CHATFIELD, OHIO.—Contracts for macadamizing, bids opened on May 21, have been awarded as follows: Burgbacker Road, to L. R. McMICHAL, of Bucyrus, Ohio, at $5,575; Schneider Road, to W. H. RAYMOND & CO., Galion, at $7,275.

TOLEDO, OHIO.—The Board of Public Service awarded contracts on May 25 for paving with Nelsonville block a portion of Summit Ave. to GARRIGAN BROS., Valentine Bldg., at $23,240. Reynold Volt is Secy.

PORTSMOUTH, OHIO.—The following bids were opened by the Board of Public Service for paving 14th St. with brick on concrete base, tar fill, with cement curb and gutter (bidders all of Portsmouth): Kaps Bros., $12,010; S. Monroe & Son, $12,944; Kelley Bros., $11,667; Samuel L. Rice, $12,847; J. A. Grimes, $12,562.

ST. CLAIRSVILLE, OHIO.—Bids are asked until June 11 (readvertisement), by O. B. May, Village Clk., for grading, draining, curbing and paving with brick or blocks on eight streets, an aggregate length of 8,600 ft.

NORWOOD (Cincinnati post-office), OHIO.—Bids will be received by the Board of Public Service, H. D. Armstrong, Clk., until noon, June 14, for improving Judge St. by grading, macadamizing, constructing concrete curbs and gutters, etc. James A. Stewart is Engr., 1112 Traction Bldg., Cincinnati.

NEWARK, OHIO.—T. H. KINNEY & SON, of Newark, have secured contract for paving N. William St. with Townsend or Novelty brick on 8-in. gravel foundation and 2-in. sand cushion, sand fill, at 93 cts. per sq. yd. Total, $4,511.

LORAIN, OHIO.—Bids will be received by the Board of Commissioners of Lorain County until 11 a. m., June 18, for grading, draining and macadamizing the Wellington Center Road from a point 1¼ miles west of Wellington to the west line of Wellington Township. Charles Chandler is Clk.

MADISON, IND.—Bids are asked by George T. Harter, City Clk., until June 26 for the construction of several miles of cement sidewalk and curb.

EVANSVILLE, IND.—The Board of Public Works is preparing to ask for bids for paving portions of Fourth, Jefferson, Oakley and Adams Sts. with asphalt and brick gutters.

CLINTON, IND.—The City Council is preparing to ask for bids for the construction of twelve miles of cement sidewalks.

KIMBALL, MICH.—Bids are asked until 10 a. m., June 24, by Wilford Tomlinson, Comr. of Highways, for materials and grading, draining, culverting, and macadamizing ten miles of road.

HOUGHTON, MICH.—Bids are asked until noon, June 14, by H. W. Fesing, Engr., for grading, macadamizing, laying concrete sidewalk, curb and gutter, drain and water mains on property of the Sheldon Estate Co., the C. O. Douglass Co., and F. W. Nichols, Trustee. The work includes 20,000 cu. yds. grading, 11,400 sq. yds. bituminous macadam, 25,000 sq. ft. sidewalk, 7,200 lin. ft. curb and gutter, 1,200 lin. ft. 12-in. drain, 3,850 lin. ft. 6-in. c.-i. pipe.

NEEHAH, WIS.—Bids are asked until 1.30 p. m., June 14, by J. P. Keating, City Clk., for paving Forest Ave. with tar macadam, about 9,557 sq. yds. of pavement and 7,161 lin. ft. of curb and gutter. H. L. Sweet is City Engr.

FOND DU LAC, WIS.—Bids will be received by C. L. Hohensee, Clk. Bd. Pub. Wks., until June 12, for 16,000 yds. asphalt paving on W. Main St., and 3,000 yds. brick paving on Brook St.

HOWLEY, MINN.—The citizens voted on May 20 to issue $16,000 of bonds for the construction of water-works and an electric light plant. J. E. Johnson is City Recdr.

WELLINGTON, KAN.—Bids will be received by A. B. Cheever, City Clk., until June 23 for 47,000 sq. yds. of street paving of brick on concrete, brick on brick, asphaltic concrete or asphalt; also 12,140 lin. ft. combined curb and gutter.

GREAT FALLS, MONT.—The following bids were opened by the Council on May 24 for building cement sidewalks for a period of two years: S. A. Hole, Calgary, Alta., $37,648; GUST NILSON, Great Falls, $34,769 (awarded contract); Russell Construction Co., Superior, Wis., $35,510; Two Miracle Co., Minneapolis, Minn., $35,089.

FORT WORTH, TEX.—Tarrant County is considering the issuance of $1,000,000 of bonds for road improvements.

RYAN, OKLA.—The city will construct 30 blocks of concrete sidewalks in the residence section.

LAWTON, OKLA.—The city has awarded contract to CHARLES H. SHAW, Muskogee, Okla., for five-mile extension of street paving with natural-rock asphalt. Estimated cost, $240,551.

OLYMPIA, WASH.—Bids will be received by the State Highway Board until June 14 for clearing, grubbing, draining, grading and bridging State road No. 8 in Clarke County, and for grading and graveling state road No. 44 in Clarke County.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of grading and curbing N. and W. 77th, N. 82d, N. 80th and Calhoun Sts., Brintnall Pl. and 45th Ave. S. W., at a total cost of $149,380, and for concrete walks on 44th Ave. S. W., at $20,800.

ROSEBURG, ORE.—J. L. PERDUE and J. R. RICHARDSON have received the contract for the construction of a road around a large hill above Perdue at $3,600.

SALEM, ORE.—The City Council has awarded contract for the improvement of six blocks of Court St. with bitulithic pavement to the WARREN CONSTRUCTION CO., Beck Bldg., Portland, at $23,000.

HERMOSA BEACH, CAL.—The PATTILLO CONTRACTING CO., it is reported, has secured the contract for paving Park, Primrose, Myrtle and Silver Strand Aves. at $20,840.

OGDEN, UTAH.—Plans are being prepared for about 30,000 sq. yds. of asphalt paving. A. F. Parker is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

NORTHAMPTON, MASS.—Belding Bros. have let contract for the addition to their silk mill in Hawley St. to the H. P. CUMMINGS CONSTRUCTION CO., of Ware and Boston. Work will begin at once and the company agrees to have the addition completed in three months. It will be 65 × 120 ft., four stories high, and will be used for the weaving department. Plans are on foot to enlarge the dyehouse and for additional power. The present addition, when completed, will mean the employment of 200 additional hands.

BOSTON, MASS.—The Boston "Transcript" states that the Boston Terminal Refrigerating Co. has announced that it will operate a terminal cold storage warehouse in East Boston, adjoining the Boston & Albany R. R. yards. Papers recently were recorded at the Suffolk Registry of Deeds organizing a syndicate of local investors into the Eastern States Real Estate Trust, of which Robert H. Gardiner and Robert H. Gardiner, Jr., are the Trustees, and to the syndicate has been conveyed a tract of land bounded by Sumner and Orleans Sts. and the Grand Junction Terminals of the Boston & Albany R. R., on which the syndicate will build a 9-sty fireproof cold storage warehouse of a modern form of tile and concrete construction. The building, when completed, will be operated under a 30-year lease by the Boston Terminal Refrigerating Co., a Massachusetts corporation formed a few months ago, of which the president is Charles H. Parsons, and the treasurer is William H. Parks, both of Springfield, Mass. The building will be 100 × 160 ft. Adjoining the main building there will be a fireproof train shed 2½ stories in height, 64 ft. wide and 240 ft. in length, furnishing room for handling, under cover, about ten to twelve cars at a time on the double tracks entering the building. F. F. Judd, 7 Fulton Pl., is Refrigerating Engr. and Arch. Work on the construction of this building began some weeks ago, and the foundations are now practically all in place and it is expected by L. P. SOULE & SON CO., 166 Devonshire St., who have the contract for the construction of the building, will begin putting the steel for the structure in place within a few days.

EAST LEE, MASS.—According to the Springfield "Republican," engineers and architects are making plans for extensive changes and improvements in the plant of the Mountain Mill Paper Co., at East Lee, which will involve an expenditure of from $35,000 to $40,000. The intention of the company is to make a modern 2-ton mill that will produce high-grade paper. A 28 or 30-in. trunk is to be built from the mill, which is known as the Benton Bros.' mill, up to the Tyringham town line, a distance of 3,000 ft., where a dam is to be built for the intake. The company has been testing the amount of water available at Goose Pond, and estimate will give 260 HP. with this arrangement. The trunk will extend above the site of the old Tanner & Faxon Mill. The remodeled buildings will be of mill construction throughout, the old roof taken off and a story added for a drying loft. A rotary bleach, new washers, heaters, dusters, concrete drainers, etc., of larger capacity will be put in. A steam plant was built last year, thus the boiler-house will not have to be changed. All of the machinery, with the exception of that on the main driving shaft, will be run with electric motors, as a large generator is being installed for the purpose and to light the plant. Turbines are to replace the old overshot wheel.

PROVIDENCE, R. I.—The Westerly Narrow Fabric Co. has let the contract to R. A. SHERMAN'S SONS CO. to erect on Beach St. a 1-story brick mill, 122 × 156 ft.

PAWTUCKET, R. I.—The Lorraine Mfg. Co. is to build a $1,500,000 addition to its cotton mill in this city which will require the employment of about 2,000 additional operatives. The company now employs 1,300 persons.

DUNKIRK, N. Y.—The Marsh-Baker Co., of Frelonia, manufacturers of paper boxes, have decided to remove to Dunkirk and have awarded to the DUNKIRK MASON CONTRACTING CO. the contract for building the new plant on property owned by the company at the corner of Lark and West Third Sts. Excavation work for the foundation will be started soon. Noted on May 27.

SCHENECTADY, N. Y.—The Hooker, Corser & Mitchell Co. will erect a 4-story and basement factory building on Dock St., 38 × 135 ft., of steel and reinforced-concrete construction. Arthur G. Lindley Co., Archs., have prepared plans for same.

NEWARK, N. Y.—The Haywood Wagon Co. will remove from Baldwinsville, N. Y., and build a manufacturing plant here. Main building, 96 × 500 ft.; warehouse, 54 × 200 ft.; power building, engine-room, boiler-room and fuel-room, 75 × 45 ft. All buildings will be of reinforced-concrete construction. J. Mills Platte, Arch., Chamber of Commerce Bldg., Rochester, N. Y., is preparing plans.

BUFFALO, N. Y.—The Lackawanna Bridge Co. has had plans prepared for a bridge building plant to be built at Abbey St. and South Buffalo Ry. The main building is to cost $100,000. Ralph A. Kellogg is Atty., 536 Ellicott Sq. Bldg.

OGDENSBURG, N. Y.—The Ogdensburg Soda Pulp Co. is having plans prepared by F. W. Dean, Arch. and Mill Engr., 53 State St., Boston, Mass., for the construction of a soda pulp mill consisting of 16 separate buildings to be erected here at an estimated cost of $750,000. The plant will include incinerating, evaporating and bleaching buildings, causticising digester building, pulp-washing, screening, bleaching and dyeing buildings, storage warehouse and shipping building and a boiler-house and steam engine building.

SCHENECTADY, N. Y.—The Hooker, Corser & Mitchell Co., manufacturers of overalls, frocks, trousers and similar goods, of Brattleboro, Vt., is to move its plant to Schenectady, it is stated. Ground for the new plant, which is to be located in Dock St., on the property purchased from the Schenectady Illuminating Co., near the old power house, will be broken early in June. The plans for the company's plant call for a 3-story concrete and steel building of fireproof construction, 125x35 ft., costing $25,000.

OSWEGO, N. Y.—The Oswego Industrial Co. will erect for the Barnes Gear Co. a 3-story brick factory building, 60 × 80 ft., on West Second St.

JERSEY CITY, N. J.—The general contract for the construction of two factory buildings, which will be erected by the Lorillard Tobacco Co., 111 First St., on the two blocks of land bounded south by West Newark Ave., north by Van Winkle St., and west by the Susquehanna R. R. tracks in the Marion Section of the city, has been awarded to MICHAEL T. CONNOLLY, of 238 17th St. The buildings will be of brick construction six stories in height and will each measure 250 × 100 ft. All modern improvements are called for in the specifications, and the estimated cost of the construction of the buildings will be $900,000.

SHARON, PA.—The Sharon Steel Hoop Co. is preparing plans for the erection of a 4-mill plant here. The works will cost about $175,000 and will afford employment to about 300 skilled hands. Work of construction will not be started until late in the summer, but plans are now being considered. The plant will be built between the blooming mill and 10-in department. The building will be 400 ft. long and about 80 ft. wide.

PHILADELPHIA, PA.—The Philadelphia Warehousing and Cold Storage Co. contemplates building immediately additions to its plant at Front and Noble Sts., on ground recently purchased by the company. The additions will comprise an 8-story storage warehouse, 150 × 175 ft., and a 2-story power plant, 50 × 92 ft. The cost of both buildings will be about $400,000.

BALTIMORE, MD.—Erlanger Bros. have been granted a permit to build a shirt factory at the southeast corner of Pratt and Greene Sts., to cost about $25,000. The building will be a 4-story brick structure on a foundation of brick laid in cement, with a slag roof. The dimensions will be 56 × 113 ft. Mill construction will be used and modern machinery will be installed. The contract for the work has been awarded to MORROW BROS., 216 West Saratoga St., who will begin in a few days.

WEIR, W. VA.—Press reports state that orders have been issued for construction of the $1,000,000 sheet and tin plate mill that is to be built at Weir, W. Va., on the Ohio River, by the Phillips Tin Plate Co., of Clarksburg, W. Va., and Stubenville capitalists. Contracts for 2,000,000 fire brick that are to be used in construction have just been awarded the MACK MFG. CO., Arrott Bldg., Pittsburg, Pa.

LINCOLNTON, N. C.—Edgar Love has engaged Stuart W. Cramer, Charlotte, N. C., to superintend construction and completion of cotton mill and has awarded contract to W. W. MOTZ, Charlotte, to erect 30 operatives' cottages.

LAURENS, S. C.—The Laurens Cotton Mills Co., Laurens, S. C., has awarded contract to the GALLIVAN BUILDING CO., of Greenville, S. C., for the erection of an 80-ft. extension to its present building, four stories high. What new machinery will be installed has not been announced, but it is understood that the company will largely increase its output. The mill has an equipment of 44,832 spindles and 1,208 looms on fancy shirtings, etc.

MEMPHIS, TENN.—The Memphis Bag Co., which has been operating a manufacturing plant here for some years, will begin shortly the erection of a plant for the manufacture of cotton and burlap bags. The new building will be five stories high of mill construction. It is estimated that it will cost $50,000 and that the plant will have double the capacity of the one in operation here during the past ten years.

FRANKFORT, IND.—The American Hoe & Handle Co. has ordered plans and will soon ask for bids for the construction of an addition to its plant in this city.

MILWAUKEE, WIS.—The A. O. Smith Co., Park and Clinton Sts., manufacturers of pressed steel frames and parts for automobiles, has had plans prepared for a plant to be erected on Keefe Ave., between 27th and 32d Sts., during this summer. Reinforced-concrete construction will be used. Main factory, 800 × 275 ft., one story; power plant, 40 × 60 ft., one story; office building, two stories, 50 × 125 ft. Cost of buildings, $300,000; equipment, $150,000.

BEAVER DAM, WIS.—The Beaver Dam Malleable Iron Range Co. has awarded the general contract for the erection of additions to its plant to DANIEL DANIELSON, of Milwaukee. Cost, $50,000. The foundry is to be 400 × 60 ft.; machine shop, 160 × 60 ft.; annealing shop, 70 × 90 ft. The plant will be of concrete construction with brick curtain walls, steel roof trusses.

BURLINGTON, IOWA.—The Mississippi Pearl Button Co. has had plans prepared for a 3-story concrete addition to their plant on Columbia St.

INDEPENDENCE, IOWA.—Plans have been prepared by Harry E. Netcott, Arch., of Independence, for a reinforced-concrete factory building, 36 × 200 ft., to be erected for the Sherman & Smith Mfg. Co. at a cost of $8,000.

ST. PAUL, MINN.—Buechner & Orth, Archs., Manhattan Block, have awarded the contract for the erection of a 3-story pressed brick, mill construction factory for the Simmons Mfg. Co., to THEODORE ANDERSON, city. It will be put up at University Ave. and Carleton St. Cost, $35,000.

LONGVIEW, TEX.—A $50,000 cotton compress will be erected here by Herman Loeb, of Shreveport, La., and New Orleans, La.

DALLAS, TEX.—Southwestern Paper Co., Dallas, F. O. Butler, Pres., Chicago, Ill., will erect a paper factory here at a cost of $100,000.

OKLAHOMA CITY, OKLA.—Morris & Co., packers, of Chicago, Ill., will erect a packing plant to cost between $3,000,000 and $5,000,000 and to employ between 1,600 and 1,800. The plant will include a live-stock exchange and belt lines connecting with all trunk railroads in the city. It is proposed to make the capacity of the plant large enough to slaughter about 1,600 head of cattle daily, 2,500 hogs and 1,500 sheep. Work will be started at once.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—Items regarding irrigation canal projects, etc., will be found under Water Supply—Irrigation.

SUBWAY.—Regina, Sask.—The city has accepted plans for the concrete subway to be built by the city and the Canadian Pacific R. R. Co. at a cost of $160,000.

DREDGING.—Wheeling, W. Va.—Bids will be received until June 28 by Capt. F. W. Alstaetter, Corps. Engrs., U. S. A., for dredging at Dam No. 13, Ohio River.

DITCH.—Greenville, Ohio.—Contract for the construction of the Rhoades ditch in Mississinawa Township has been awarded to I. E. BERRY, of Versailles, Ohio, for $10,980.

RIVER IMPROVEMENTS.—Chain, Ohio.—Bids are asked until noon, June 22, by the Board of Public Service for improvement of Black River by widening, deepening and straightening the channel of same.

DREDGING.—San Francisco, Cal.—Bids are asked by Lt.-Col. John Biddle, Corps Engrs., U. S. A., San Francisco, until noon, June 14, for dredging Stockton Channel, Cal.

FIRE HOSE.—New York, N. Y.—Bids are asked until 3 p. m., June 16, by the Bellevue and Allied Hospitals, Department of New York City, for 4,000 ft. of cotton rubber-lined fire hose.

RIVER BANK PROTECTION, Galveston, Tex.—Bids are asked until noon, June 16, by Capt. John C. Oakes, Corps Engrs., U. S. A., Galveston, for protecting the river bank at Fort Brown, Tex.

DITCHES.—Orlando, Fla.—Bids will be received by B. M. Robinson, Clk. Bd. of Comrs., until June 17 for constructing various ditches. Wilbur A. Ginn, Engr., First National Bank Bldg., Sanford, Fla.

WHARF.—Washington, D. C.—Bids will be received by the District Commissioners, W. H. MacFarland, Chn., June 12, for construction of wharf and bulkline, including dredging at District Wharf, Seventh St. channel.

METAL LOCKERS.—Chicago, Ill.—Bids will be received by Lieut.-Col. W. W. Robinson, Jr., Q. M., Federal Bldg., Chicago, until July 1 for furnishing and delivering f. o. b. at place of manufacture about 5,000 metal wall lockers.

DREDGING.—Washington, D. C.—Bids will be received by Maj. Jay J. Morrow, Corps Engrs., U. S. A., 920 17th St., N. W. Washington, until noon, July 2, for dredging in Breton Bay, Maryland; Pamunkey and Mattaponi Rivers, Va.

DREDGING AND WHARF.—Norfolk, Va.—Bids are asked by R. C. Holyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., June 19, for certain dredging and wharf work at the Navy Yard, Norfolk, Va.

DRAINAGE.—Tenafly, N. J.—Bids will be received by John Z. Demarest, Treas. Teraklil Drainage Comn., until 8 p. m., June 16, for drainage of low and wet lands in the boroughs of Tenafly and Cresskill. Watson G. Clark, Engr., 1125 Broadway, New York.

VESSEL.—Seattle, Wash.—Bids are asked until 11 a. m., June 14, by Maj. W. S. Wood, Q. M., Seattle, for constructing one wooden steamer, oil burner, dimensions about 130 ft. length, 24 ft. beam, 8 ft. draft, triple expansion engine, single screw.

IRON FENCES.—New York, N. Y.—Bids will be received by the Park Board until June 17, for furnishing and erecting wrought iron picket fences around two playgrounds in Tompkins Sq., also 3-rail pipe fences along various walks in St. Nicholas Park, both in Boro. of Manhattan.

DUMP, FILL IN.—New York, N. Y.—Bids are asked by Allen N. Spooner, Comr. Docks and Ferries, until noon, June 15, for the right to dump and fill in behind the bulkhead wall recently built or to be built on part of the Yorkville section on the vicinity of East 66th St., East River, Boro. of Manhattan.

DREDGING.—Brooklyn, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, June 16, for Contract No. 1025: For furnishing all the labor and materials required for dredging at the site of the proposed improvement near the mouth of Whale Creek, Newtown Creek, Boro. of Brooklyn.

STEAMERS.—New York, N. Y.—The NEWPORT NEWS SHIPBUILDING & DRYDOCK CO. has announced the closing of a contract with the Southern Pacific Co. for construction of four passenger and freight steamers to run between New York and Gulf ports, the contract aggregating $3,000,000. The steamers are to be 450 ft. long and will have a speed of 15¼ knots.

LANDING PLATFORM.—New York, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, June 21, for Contract No. 1180: For furnishing all the labor and materials required for preparing for and building a landing platform, breakwaters, float stages and movable gangways, with appurtenances, at the foot of West 110th St., North River, and for furnishing and depositing riprap thereat.

WHARVES.—Fort Mason (San Francisco post-office), Cal.—Bids were received on May 27 by Maj. George McK. Williamson, Q. M., U. S. A., Fort Mason, for reconstructing wharf at Fort Barry; also separate bids for repairs to wharf at Fort McDowell. Contract for Fort Barry wharf was let to O. J. CROSSFIELD, 103 Main St., San Francisco, at $12,237; at Fort McDowell, to the MERCER-FRAZER CO., 1525 Mission St., San Francisco.

CONVEYING MACHINERY.—Key West, Fla.—Bids were received as follows at the Bureau of Yards and Docks, Navy Department, Washington, D. C., for furnishing coal-conveying machinery of the gravity bucket type for the Naval Station at Key West, Fla.: Penn Bridge Co., Washington, $46,600; Conveying Machinery Co., New York, $44,454; Dietz Engineering Co., 59 Church St., New York, $59,000; Mead-Morrison Co., 11 Broadway, New York, $75,845.

ORDNANCE.—Washington, D. C.—Bids were received as follows on June 4, by the Chief of Ordnance, War Department, Washington, for furnishing 1,000 6-in. common steel shell, Siege Howitzer, Model, 1907: Bethlehem Steel Co., South Bethlehem, Pa., $16,000; E. W. Bliss Co., Brooklyn, N. Y.,

$16,980; Midvale Steel Co., Philadelphia, $27,850. Also by the Bethlehem Steel Co., for furnishing one carriage limber at $2,197, or one limber and one carriage at $3,963. This was the only bid received for these articles.

PARK.—New York, N. Y.—Bids were received as follows by the Park Board on June 3 for constructing Chelsea Park, in the Borough of Manhattan, the City of New York: C. W. Collins, 5189 Broadway, $41,136; Dunbar Contracting Co., $45,784; Sicilian Asphalt Co., 41 Park Row, $43,696; Guidone & Gelardi, 162 East 23d St., $53,140; Jos. Moore, $50,613; Cooper Evans Co., 220 Broadway, $48,301; H. E. Fox, 60 East 125th St., $61,411; Atlanta Contracting Co., 290 East 42d St., $47,279; Barber Asphalt Paving Co., 30 Church St., $47,279; Merrill-Ruckgaber Co., 50 Church St., $61,175; Robertson Gerhardt, $47,780; Kelly & Kelley, 45 East 42d St., $43,551.

DESTROYERS.—Washington, D. C.—Contracts to build one torpedo boat destroyer each were awarded on June 8 to the following companies: BATH IRON WORKS, at $659,500; NEW YORK SHIPBUILDING CO., New York, $648,000; WILLIAM CRAMP & SONS, Philadelphia, $637,000, and NEWPORT NEWS SHIPBUILDING CO., Newport News, Va., $629,000. The FORE RIVER SHIPBUILDING CO., Quincy, Mass., also will get a contract for one, at $644,000. All the companies have 24 months to complete the vessels, with the exception of the New York Shipbuilding Co., which submitted its bid to complete the boat in 22 months. Each of the boats is to have a speed of 29½ knots an hour and to be of 750 tons displacement.

SUBWAY.—New York.—The Board of Estimate and Apportionment has approved the franchise granted by the Public Service Commission to the Hudson & Manhattan R. R. Co. for the extension of its line from Sixth Ave. and 33d St. to the Grand Central Station. Entrances to the stations are to be made through private property and the construction must be carried on as far as possible without disturbing the surface of the street. The contract also contains a provision that the city may after Jan. 1, 1935, purchase the railroad if it should desire to use it as a part of a municipal system. Two years' notice, however, must be given of the intention of the city to take the property. It is estimated that the city will receive about $20,000 a year for the first 10-year term of the franchise.

CANAL.—Boston, Mass.—The contract for building the canal through the neck of the Massachusetts coast from Buzzards Bay to Cape Cod has been let to the DEGNON CONTRACTING CO., 60 Wall St., New York. The company has sub-let the dredging work to the FURST-CLARK CONSTRUCTION CO., Fidelity Bldg., Baltimore, Md., which will begin operations at once. The first work will be the building of a breakwater at Cape Cod. For this the contractors will bring many tons of stone and gravel from Maine. Arrangements for this have already been made. It is preliminary to the dredging work. The canal will be eight miles long and will avoid the dangerous Massachusetts coast on the ocean. It is being built by private capital. August Belmont, New York, is interested. The ALFRED SORENSON CO., of Boston, Mass., has contract for handling 2,000,000 tons of heavy granite, to be used in the construction of an immense breakwater extending from the shore line at Sandwich well out into the bay, for the protection of shipping intending to use the proposed canal. This calls for an expenditure of $600,000 and its completion in six years, or the handling of at least 1,000 tons of heavy stone each working day.

CONTRACT PRICES.

PAVING, ETC.—Albany, N. Y.—The item prices of the bids received by the Board of Contract and Supply, Albany, on May 17, for the improvement of Main Ave., from Madison Ave. to Park Ave., were—(a) Holler & Shepard; (b) Edward F. Dillon; (c) John M. Holler; (d) MICHAEL F. DOLLARD (awarded contract); (e) Mulderry Brothers; the bidders being all of Albany:

	(A)	(B)	(C)	(D)	(E)
14,000 cu. yds. excavation	$0.45	$0.35	$0.34	$0.29	$0.28
4,150 sq. yds. brick pavement	2.67	2.25	2.105	2.00	2.05
150 sq. yds. driveway	2.60	2.25	2.15	2.00	2.25
20 sq. yds. relaying pavement	3.00	3.50	3.00	2.90	3.00
50 sq. ft. relaying sidewalk	.07	.06	.08	.06	.06
2,030 lin. ft. straight curb	.90	.85	.80	.85	.85
260 lin. ft. circular curb	1.10	1.00	1.00	1.00	1.25
20 lin. ft. resetting curb	.40	.25	.50	.40	.50
11,000 sq. ft. new flag walk	.24	.225	.22	.21	.20
400 sq. ft. new flag walk	.22	.20	.19	.19	.19
7,500 sq. ft. new brick walk	.12	.105	.11	.10	.11
4,200 sq. yds. sod	.40	.25	.15	.18	.28
25 cu. yds. screenings	3.00	2.25	2.50	2.00	2.75
610 lin. ft. 12″ pipe	1.60	.75	1.40	.80	1.17
320 lin. ft. 15″ pipe	1.81	1.20	1.70	1.00	1.40
550 lin. ft. 18″ pipe	1.95	1.62	1.80	1.30	1.70
286 lin. ft. 24″ pipe	2.84	2.15	2.50	2.35	2.40
10 lin. ft. 30″ pipe	4.00	3.50	3.50	3.25	3.50
27 12″ Y's	3.63	3.50	3.25	2.75	3.50
7 15″ Y's	4.75	3.50	4.50	3.75	4.25
16 18″ Y's	5.75	4.50	5.50	4.50	4.75
9 24″ Y's	6.50	7.00	6.50	5.50	9.50
20 lin. ft. 6″ pipe	.70	.50	.80	.60	.70
5 6″ bends	.90	.40	.80	.60	.70
12 manholes	.50	.40	.50	.45	.40
10 water services	.23	.225	.15	.18	.22
6 receiving basins	.80	.75	.80	.80	.85
25 cu. yds. concrete	7.50	12.00	8.00	6.00	7.60
Days to complete, at $5	80.00	60.00	90.00	50.00	70.00
Total	$37,128	$25,985	$25,291	$22,707	$24,092

U. S. POSSESSIONS.

DRY DOCK.—Pearl Harbor, H. T.—The Bureau of Yards and Docks, Navy Department, Washington, has recommended for acceptance the bid of the San Francisco Bridge Co., San Francisco, for the construction of the concrete dry dock at the Pearl Harbor Naval Station, at a cost of $1,760,000.

MACHINERY.—Panama.—Bids are asked until 10.30 a. m., June 19, by the Isthmian Canal Commission, Washington, D. C., for machinery for a central pumping station and three pumping units for hydraulic excavating and slucing, including pumps and motors, engines, boilers, monitors, pipe and fittings, etc.

DYNAMITE.—Panama.—Bids were received as follows on June 7, at the office of the Isthmian Canal Commission for furnishing dynamite, 5,000 lbs., 40% nitroglycerine; 5,825,000 lbs., 45% nitroglycerine, and 3,442,000 lbs., 60% nitroglycerine dynamite: E. I. du Pont de Nemours Powder Co., 90 West St., New York, $1,051,850; Keystone Powder Co., Emporium, Pa., $1,017,232. Part bids were submitted by the Texas Dynamite Co., Beaumont, Tex.; Trojan Powder Co., 65 Pine St., New York, and W. R. Grace & Co., San Francisco.

TUGBOAT.—Panama.—Bids were received as follows by the Isthmian Canal Commission, Washington, D. C., for the furnishing of a new or second-hand tug to the Commission: McWilliams Blue Line, 1 Broadway, New York, $77,250, New York, $85,889, Colon. James Clark Co., Baltimore, $32,500, $35,000, Baltimore; $43,650, $46,250, Colon. Port Johnson Towing Co., 1 Broadway, New York, $81,500, New York; $87,500, Colon. Speden Shipbuilding Co., Baltimore, New, $80,000, Baltimore. J. H. Loud, 23 South St., New York, steel, $75,000, wooden, $55,000, deliveries not stated. Samuel Holmes, 68 Broad St., New York, $63,000, $59,000, $45,000, $55,000, $50,000, $55,000, $52,500.

LUMBER.—Panama.—Bids were received as follows on May 24 at the Isthmian Canal Commission, Washington, for furnishing 2,875,000 ft. B. M., of pine or fir lumber for use on the Isthmus: W. S. Bacon & Sons, Savannah, Ga., pine, $88,978, $79,688, $72,631; fir, $71,557. Bay Shore Lumber Co., Mobile, Ala., pine, $60,598. Chicago Lumber & Coal Co., St. Louis, pine, $60,360. Perley R. Eaton, Fitchburg, Mass., fir, $60,596. G. Elias & Sons, Buffalo, pine, $63,137; fir, $66,475. William D. Gill & Sons, Baltimore, pine, $67,376; fir, $23.40 per thousand. St. Paul & Tacoma Lumber Co., New York, fir, $22.25 per thousand. Long Bell Lumber Co., Kansas City, pine, $67,212. Charles Nelson Co., San Francisco, fir, $49,720. Salmen Brick & Lumber Co., New Orleans, pine, item 50 only, $52,175. Southern Sawmill Co., New Orleans, pine, $23.60 per thousand. Bowring & Co., San Francisco, fir, $57,037. R. P. Clarke Co., Washington, fir, $25.85 per thousand. D. L. Gillespie & Co., Pittsburg, pine, $82,491; fir, $63,241; pine, $63,491. $59,891. W. R. Grace & Co., San Francisco, fir, $67,094. $57,432. J. K. Joice, Chicago, fir, $56,150, $59,325; pine, $71,625, $70,350; pine and fir, $70,350, $63,150, $63,100. C. J. Millard, St. Louis, fir, $57,440. All pine bids for delivery at Colon, all fir bids for delivery at La Boca.

LUMBER.—Panama.—Bids were received as follows on June 7, at the office of the Isthmian Canal Commission for furnishing (a) about 2,100,000 ft. B. M. of Douglas fir or yellow pine lumber and (b) about 2,800,000 ft. of the same: A. S. Bacon & Sons, Savannah, Ga., (a) $59,393, (b) $63,000; Bay Shore Lumber Co., Mobile, Ala., (a) $55,311, (b) $64,275, $70,000, $65,500, on part, $33,737, $32,737; Bowring & Co., San Francisco, Cal., (a) $42,330, $54,880, delivery at La Boca; L'Hote Mfg. Co., New Orleans, La., (a) $56,148, (b) $62,200; Perley R. Eaton, Fitchburg, Mass., (a) $37,903, (b) $49,640, delivery La Boca; G. Elias & Bro., Buffalo, N. Y., $53,915, (b) $58,750, delivery at Colon; (a) $498,624, delivery at La Boca; William D. Gill & Sons, Baltimore, (a) $55,937, (b) $62,880; D. L. Gillespie & Co., Pittsburg, Pa., (a) $45,262, (b) $57,825, delivery at Colon or La Boca, bidder's option; C. J. Millard, St. Louis, (a) $50,678, (b) $62,315, same delivery; S. E. Naylor & Co., Gulfport, Miss., (a) $51,360, (b) $58,800; Charles Nelson & Co., San Francisco, (a) $46,327, (b) $60,060, delivery at La Boca; Salmen Brick & Lumber Co., New Orleans, (a) $57,533, (b) $58,845; St. Paul & Tacoma Lumber Co., New York, $22.75 per M. ft. throughout, delivery La Boca; W. R. Grace & Co., San Francisco, (a) $41,575, (b) $53,900, delivery La Boca; J. K. Joice, Chicago, (a) $61,743, $55,727, (b) $69,950, $55,727, delivery at Colon; (a) $46,929, (b) $60,100, delivery at La Boca; Chicago Lumber & Coal Co., St. Louis, Mo., (a) $53,121, (b) $56,837; Long Bell Lumber Co., Kansas City, Mo., (a) $57,870, (b) $60,400. Bids are on long leaf yellow pine delivered at Colon unless otherwise stated, bids on delivery at La Boca are for Douglas fir.

EXAMINATIONS.

INSPECTOR.—Albany, N. Y.—The State Civil Service Commission will hold examination on June 26 for Inspector of Weights and Measures, Department of State, Superintendent of Weights and Measures, $1,100 per year. Applications must be filed prior to closing hour on June 21, the State Civil Service Commission, Albany.

Examination will be held at same time for Superintendent of Construction, State Architect's office. Salary, $1,800.

TIMBER CRUISER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 30 to secure eligibles from which to make certification to fill two or more vacancies in the position of Timber Cruiser under the Chief of the Field Divisions of the General Land Office, at $7 per day each, and vacancies requiring similar qualifications as they may occur. As an insufficient number of eligibles to meet the needs of the service resulted from the examination held on March 17, 1909, qualified persons are urged to enter this examination. Age limit, 20 years. Application Form 1093.

CIVIL ENGINEER, SURVEYOR, TRANSITMAN.—Washington, D. C.—The U. S. Civil Service Commission announces examinations on June 21, to secure eligibles from which to make certification to fill approximately 200 vacancies in the temporary positions of Junior Engineer, Surveyor and Transitman, in the Engineer Department at Large, War Dept., for work on the surveys in connection with the Intra-Coastal Waterways from Boston, Mass., to Key West, Fla. The salaries of Junior Engineers will range from $125 to $175 a month. The salaries of surveyors and transitmen will range from $100 to $125 a month. The employment in these positions will be temporary, continuing for from six months to one year. Age limit, 20 years. Application Form 1312. Applications must be filed prior to closing hour on June 21.

JUNIOR STATISTICIAN AND LEVELER.—Albany, N. Y.—Open competitive examinations for the state and county service will be held in various cities throughout the state on June 19, for the following positions:

Junior Statistician.—$1,200 a year. Open to men only. This examination is to provide an eligible list for the Public Service Commissions, Department of Labor, and other departments requiring Statisticians in this grade. The position requires collegiate training in economics and statistics or equivalent.

Leveler.—$4.50 to $5 a day. Candidates must have had at least two years' practical experience in civil engineering. Candidates who have graduated in civil engineering from a school maintaining a standard satisfactory to the Commission will be admitted upon proof of one year's experience since graduation.

Intending competitors must execute application blanks and file them in the office of the Commission before noon June 14. Candidates having applications on file will be given ample notice of the time and place of examination. No one will be admitted to the examination without the official notice (Form E-8).

INDUSTRIAL NOTES.

THE EXCLUSIVE AGENCY for the construction of all Ransom and Hoadley dams has been given to the Frank B. Gilbreth Company, of 60 Broadway, New York City.

THE POWER & MINING MACHINERY CO., of Cudahy, Wis., has a contract to supply a stone-crushing plant with a capacity of 300 cu. yds. per hour for the Panama Canal.

A RECENT INCORPORATION at Jacksonville, Fla., is that of the Mackle-Crawford Construction Company, 14 Doty Building, to engage in business as structural steel erectors.

ALEXANDER POTTER, consulting and constructing engineer, announces the removal of his offices from 143 Liberty St. to the Engineering Bldg., 114 Liberty St., New York City.

S. MORGAN SMITH CO., York, Pa., has opened an office at 644 American Trust Bldg., Chicago. This office will attend to all business west of Pittsburg and will be in charge of Mr. J. C. Temple.

THE NORBOM ENGINEERING CO., Denckla Bldg., Philadelphia, has opened an office at 1825 Park Row Bldg., New York City. This office is in charge of Mr. H. S. Wood, formerly Chief Engineer of the North American Dredging Co.

THE FRED M. PRESCOTT STEAM PUMP CO., Milwaukee, Wis., announces the establishment of a branch office in the Candler Bldg., Atlanta, Ga. This office is in charge of R. L. Radcliffe and will handle Southern and Southeastern business.

THE ATLAS DRYER CO., of Cleveland, Ohio, is now building an Atlas Railroad asphalt paving plant, capacity 2,000 sq. yds. of 2-in. topping per day of 10 hours. The plant can be seen in course of construction in Cleveland. It will be shipped South the latter part of June.

MR. W. H. RUKENBROD, who for the past twelve years has been connected with the Standard Oil Co., has severed his connection with that concern and is now affiliated with the Cyclone Drill Co., of Orrville, Ohio to the interests of which he will now devote his entire attention.

THE LINDE AIR PRODUCTS CO., 155 Chandler St., Buffalo, N. Y., reports a marked increase in sales since the late presidential election. Enquiries may be addressed to Cecil Lightfoot, Consult. Engr. and Gen. Mgr., at Buffalo, or to the New York City offices, 912 New York Life Bldg.

BARTLETT, HAYWARD & CO. have incorporated under the laws of Maryland with a capital stock of 15,000 shares, of which Mr. Thos. F. Hayward holds 14,992. The incorporation is for the purpose of continuing the business in case of the death of Mr. Hayward, who remains in full charge.

THE SAN FRANCISCO BRANCH OFFICE and warerooms of the Sullivan Machinery Co. are now located at 461 Market St., in the Sheldon Bldg., instead of at 26 Fremont St., as heretofore. Sullivan air compressors, diamond drills, rock drills, and other mining machinery are carried in stock at this office.

MACKLE-CRAWFORD CONSTRUCTION Co.—An organization under this name has been recently incorporated with offices at 14 Doty Bldg., Jacksonville, Fla. It will undertake the erection of steel bridges, buildings, stacks and tanks and the installation of heavy machinery in any part of the South or Southwest.

THE HOYT ELECTRICAL INSTRUMENT WORKS, of Penacook, N. H., have found it necessary to secure more room for the New York office, and have removed to 136 Liberty St., where, with greatly increased space and facilities, the company will be in a better position to give the business entrusted to it the best possible attention.

THE CITY OF BELLEVUE, IOWA, has placed an order for a Foos three-cylinder vertical engine with gas producer complete, with the Foos Gas Engine Co., Springfield, Ohio, to replace a steam engine in the city electric light plant. This will run in parallel with a steam engine, it being anticipated to displace the remaining steam engine with another like engine.

THE BOWERY MISSION FREE LABOR BUREAU is prepared to supply any number of men, for any kind of labor, at a moment's notice. Within the past twelve months their cashier has paid out $1,453.86 for railroad expenses on thousands of worthy, willing and able-bodied men, to all parts of the country. Address John C. Earl, Financial Secretary, 92 Bible House, New York City.

THE FOUNDATION COMPANY, 115 Broadway, New York City, has secured the contract for all of the caisson foundation work in connection with the 21-story addition to the Fidelity & Casualty Bldg., to be erected on the southwest corner of Liberty and Temple Sts., New York City. This work will be done under the supervision of Eidlitz & McKenzie, Architects, and will begin at once.

THE WESTERN STATES PORTLAND CEMENT CO., New York Life Bldg., Kansas City, Mo., reports that 30,000 barrels of its Cowboy brand cement was used in the construction of the reinforced-concrete U. S. Grant Hotel, at San Diego, Cal. A special feature of the work is the use of concrete for all outside finish and all ornamental work, such as balustrades, fountains, etc., where the form construction required cabinet-makers' work.

THE ATLAS DRYER CO., of Cleveland, Ohio, has closed a contract with a large Eastern asphalt paving company for four Atlas dryers, two for sand, each having capacity for drying and heating 20 tons per hour; one having capacity for drying and heating 40 tons of binder stone per hour; one having capacity for drying and heating eight tons of stone sand per hour. The dryers will be self-contained type, and will be equipped with Atlas mechanical stokers.

PRATT ENGINEERING & MACHINE CO.—Mr. R. E. S. Geare has recently become Assistant Sales Manager and will make his headquarters at the company's eastern office, 80 Wall St., New York City. The main office and works of the Pratt Engineering & Machine Co., which builds sugar mills, fertilizer and chemical plants and steam and centrifugal pumps, are in Atlanta, Ga. Mr. Geare was formerly Eastern Sales Manager for the Dayton Hydraulic Machinery Co.

THE C. O. BARTLETT & SNOW CO., Cleveland, Ohio, report the following recent orders: Benson Mines Co., Benson Mines, N. Y., one skip hoist; Geo. H. Clippert & Bro. Brick Co., Detroit, Mich., one low-pressure brick dryer, capacity 30,000 brick per day; Baldwin Bros., Cleveland, Ohio, one gravel outfit for disintegrating, elevating, screening and washing gravel. Announcement is also made of the establishing of a New York office, in charge of Mr. H. H. Bighouse, Chief Engineer.

THE DARLEY ENGINEERING CO., builders of patented suction conveyors, main office, Singer Bldg. (tower), 149 Broadway, New York, announce that their Pittsburg office is abolished, and the engineering, purchasing and sales departments hitherto located there, have been transferred to New York City. The Chicago office will remain, as at present, in the Monadnock Bldg. The new officers of the company are as follows: W. A. Stadelman, Pres. and Gen. Mgr.; C. L. Inslee, Vice-Pres.; W. G. Hudson, Vice-Pres.; W. W. Ricker, Treas.; M. D. Chapman, Secy.

THE BRANCH HOUSE of the Arthur Koppel Co., Pittsburg, Pa., at Madrid, Spain, reports that in the presence of the King and Queen of Spain and about 50,000 spectators, operations of the work for the construction of the Canal Alfonso XIII. were started. The construction of this canal will enable ocean steamers with a capacity of 10,000 reg. tonnage to go up on the Guadalquivir as far as Sevilla.

A large amount of the industrial machinery and railway material was supplied by the Spanish branch house of the Arthur Koppel Co. The order placed in October, 1908, amounting to about $500,000, was the first one the Spanish Government placed with the Koppel Co., and consisted of four steam shovels, eight locomotives, 100 cars, track and other railway material.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., reports that during the past 90 days it has taken contracts for upwards of 30 steam turbines and generators, aggregating in capacity nearly 50,000 KW., and that negotiations are now pending for more than double that number. Among the orders re-

cently placed is one for a unit of 2,000 KW. for the Public Service Corporation of New Jersey, to be installed at Camden; another of 2,000 KW., purchased by the Stone & Webster Engineering Corporation for the El Paso Electric Ry. Co., El Paso, Tex., and a 2,000-KW. machine to be placed on a repeat order in the Public Service Station of the city of Columbus, Ohio.

AMONG THE ORDERS recently booked by the Crocker-Wheeler Co. is one for two 1,000-KW., 6,600-volt, 3-phase, 25-cycle, alternating current generators for the Nordberg Manufacturing Co., Milwaukee, Wis. These machines will be used for supplying light and power to the Miami Copper Co., Globe, Ariz. The Houston Electric Co., Houston, Tex., has purchased an 800-KW., 575-volt, direct current generator. Two 3-phase, 2,300-volt, 50-cycle alternators, having a combined capacity of 550 KW., are to be added to the equipment of the municipal plant at Pasadena, Cal. A motor-generator set, consisting of a 3-phase, 60-cycle, 2,300-volt, synchronous motor and a 575-volt direct current dynamo, having a capacity of 300 KW., was sold to the Boise Valley Railway Co., Boise, Idaho. An order from Charles Wouter, 2537 Wabash Ave., Chicago, calls for a 100-KW. generator with a range in potential of from 125 to 250 volts. A similar order is that placed by the Timken Detroit Axle Co., Detroit, Mich., for a 100-KW., 250-volt, direct current generator. A Crocker-Wheeler Form W motor, having a capacity of 200 HP., built for 230 volts, was shipped to the Hunt Engineering Co. at Des Moines, Iowa. This motor is series wound and will be used in operating a derrick. Two 100-HP., 3-phase, 60-cycle induction motors of the wound rotor type, rate at 100 HP. each, were billed to the Boston & Corbin Copper & Silver Mining Co., 82 Devonshire St., Boston. These machines will be used in operating hoists. The National Tube Co., McKeesport, Pa., have added to their 22,800 HP. of Crocker-Wheeler motors to the extent of 275 HP. for the operation of saws and various rolling mill machinery.

TRADE PUBLICATIONS.

HOLLOW STAY BOLTS.—Detroit Seamless Steel Tubes Co., Detroit, Mich. Paper; 3½ × 6 ins.; pp. 6; illustrated.

The advantages of the "Detroit" seamless hollow stay bolt are set forth in this leaflet. This stay bolt is manufactured from basic open-hearth steel by the seamless-tube process.

GASOLINE LOCOMOTIVES.—Ernst Wiener Co., 50 Church St., New York. Paper; 9 × 6 ins.; pp. 7; illustrated.

This pamphlet describes a gasoline locomotive equipped with a 35-HP. motor and capable of a speed of 3 to 12 miles an hour. Its weight is about 5,000 lbs., carried on four wheels. The gage of track may be 24, 30 or 36 ins., as specified.

STEAM VACUUM PUMP.—Emerson Steam Pump Co., Alexandria, Va. Paper; 3½ × 6 ins.; pp. 8; illustrated.

This is a reprint in booklet form of an article entitled "Fighting Three Miles of Quicksand," by Edward I. Pratt, which appeared in the "Technical World" for December, 1908. The article is a "popular" account of the sewer excavation in running sand at Gary, Ind., which was described in Eng. News, Aug. 6, 1908.

OZONE IN WATER PURIFICATION.—United Water Improvement Co., Philadelphia, Pa. Paper; 6 × 9¼ ins.; pp. 38; illustrated.

A considerable amount of interesting and valuable information on the history and practice of water treatment by ozone is given in this pamphlet. As is to be expected from a trade publication, the information is confined wholly to facts and opinions favorable to the process; but it is valuable nevertheless if proper allowance is made for this fact.

STONE AND ORE-CRUSHING PLANTS.—Eureka Stone & Ore Crusher Co., Cedar Rapids, Iowa. Paper; 10½ × 7¾ ins.; pp. 47; illustrated.

The crushers are of the Mitchell jaw pattern, made for general work and for fine crushing, and are said to be specially advantageous for cement plants. A special form is used for crushing coal at power plants equipped with automatic stokers, and there is a contractor's or road-making portable outfit, consisting of a gas engine, crusher and elevator mounted on a wagon bed. Revolving screens (of wire cloth and perforated metal), bucket elevators, dump cars, gates for storage bins, and other appliances are listed.

For other Proposal Advertisements see pages 51, 52, 54, 56, of Advertisements and Construction News page 194.

OFFICE, COMMISSIONERS, DISTRICT OF COLUMBIA, Washington, June 4, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, June 19, 1909, for grading and improving suburban streets and avenues in the District of Columbia. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building. HENRY B. F. MACFARLAND, HENRY L. WEST, WILLIAM V. JUDSON, Commissioners, D. C.

DRAINAGE.

Tenafly, N. J.

Sealed proposals for drainage of low and wet lands lying in the Boroughs of Tenafly and Cresskill, Bergen County, New Jersey, lying on both sides of the Tenakill from the southely line of the Borough of Tenafly to the southerly line of the Borough of Demarest, will be received at the office on West Railroad Avenue, Tenafly, N. J., of John Z. Demarest, Treasurer of the Tenakill Drainage Commission, until 8.00 p. m., Wednesday, June 16, 1909, at which time and place the undersigned Commission will meet to open the proposals. No bids will be received after 8 o'clock p. m. of the above date.

Plans and specifications and forms of bid may be seen at the office of Watson G. Clark, C. E., Hillside Ave., and 1125 Broadway, New York City, June 1st, 1909.

All bids will be unsealed and the contents publically announced at the abovementioned hour and place.

Bidders are requested to have a representative present.

All bids must be accompanied by certified check to the amount of $500, payable to the order of John Z. Demarest, Treasurer of the Tenakill Drainage Commission.

A bond will be required from the successful bidder for the faithful performance of the contract.

The Commission reserves the right to reject any or all bids.

ELIAS H. SISSON,
JOHN Z. DEMAREST, Treas.
WATSON G. CLARK,
Commissioners.

SEWERS.

Westfield, N. J.

Sealed proposals will be received by the Council of the Town of Westfield, N. J., at the Town Rooms, No. 129 Elm Street, Westfield, N. J., on Monday, June 28th, 1909, at 8:15 P. M., for constructing sanitary sewers and appurtenances in said Town.

The Engineer's approximate estimate of quantities is as follows:

10,046	lin. ft. 8-in. vitrified pipe sewer.
2,610	lin. ft. 10-in. vitrified pipe sewer.
1,391	lin. ft. 12-in. vitrified pipe sewer.
4,598	lin. ft. 15-in. vitrified pipe sewer.
60	lin. ft. 8-in. cast-iron sewer.
500	lin. ft. 10-in. cast-iron sewer.
329	lin. ft. 12-in. cast-iron sewer.
412	lin. ft. 14-in. cast-iron sewer.
52	Manholes.
586	Branches.
10,000	lbs. Special Castings.
3	Flush Tanks.
6	Combined Manholes and Flush Tanks.
4	Drop Connections.
50	Extension Connections.

Each proposal must be accompanied by a certified check for $1,000.00, payable to the order of the Treasurer of the Town of Westfield, signed by the bidder and without condition or endorsement of any kind, as an evidence of good faith, and the successful bidder will be required to furnish a bond of $15,000.00, with sureties acceptable to the Council, to guarantee the faithful performance of the contract.

The Council reserves the right to reject any or all bids.

Duplicate plans and forms of proposal, specifications and contract may be obtained at the office of A. W. Vars, Town Surveyor, No. 129 Elm Street, Westfield, N. J.

LLOYD THOMPSON,
Town Clerk.

Dated June 7th, 1909.

SANITARY SEWERS.

Indiana, Pa.

Sealed proposals will be received by the Borough of Indiana until 7:30 o'clock P. M., June 21, 1909, for the laying of 2,317 feet of 12-inch pipe, 4,045 feet of 10-inch pipe, 4,820 feet of 8-inch pipe, 4,995 feet of 6-inch pipe Sewers, 11 Manholes and 11 flush-tanks.

A certified check for $300 must accompany each bid. The right is reserved to reject any or all proposals.

THOMAS PEALER,
Borough Engineer.

SURFACING AND GRADING BOSTON EMBANKMENT.

COMMONWEALTH OF MASSACHUSETTS.

CHARLES RIVER BASIN COMMISSION.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock P. M., of Monday, June 21, 1909, for surfacing and grading Sections 2, 3 and 4 of the Boston Embankment, which sections extend along the Boston side of the Charles River, from Berkeley Street to Charlesgate West. The work will require about 11,000 feet of trench in which to lay pipes which will be furnished by the Commission; 41 catch-basins; 600 cubic yards of gravel; 230 square yards of vitrified brick gutters; 9,600 square yards of granolithic walk, and 21,000 cubic yards of loam. The gravel and loam will be measured in place. The work to be done includes the laying of pipes for water supply, drains and electric wires; the construction of service boxes and catch-basins; laying brick gutters; building gravel and granolithic walks; and placing loam upon the embankment and seeding or sodding it for grass. Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be ready about June 11 and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston Stret, Boston, where also plans may be seen. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY D. YERXA, Chairman; JOSHUA B. HOLDEN, EDGAR R. CHAMPLIN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 8, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 13th day of July, 1909, and then opened, for the extension, remodeling, etc., of the U. S. Post-Office, Court-House and Custom-House building at Newbern, North Carolina, in accordance with drawing and specification, copies of which may be had at this office or at the office of the Custodian at Newbern, N. C., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Situations Wanted

Mechanical and Electrical Engineers.

MECHANICAL AND ELECTRICAL engineer, 5 years' practical experience, wants position after having obtained college education in Germany; moderate salary; competent draftsman, designer on gas engines. Address "D. C. 23," Engineering News, New York. 23-1t

Civil Engineers.

GRADUATE CIVIL ENGINEER, 12 years' experience, field and office, on concrete, reinforced concrete steel, railroad and harbor work, wants responsible position. Address "X. B. 23," Engineering News, New York. 23-3t

Bridge and Structural Engineers.

STRUCTURAL ENGINEER; thoroughly experienced in steel and reinforced concrete; desires permanent position. Best of references. Address "B. C. 23," Engineering News, New York. 23-2t

Surveyors.

INSTRUMENTMAN-DRAUGHTSMAN; position by a young technical graduate; one year's experience on [illegible] supply work. Address [illegible] gineering News, New [illegible] 23-1t

RODMAN; three years [illegible] desires position in or [illegible] City. Address "C. C. [illegible] News, New York. 23-1t

Draftsmen.

JUNIOR DRAFTSMAN; [illegible] mechanical; coal handling machinery; narrow gage railways; [illegible] experimental work. Address [illegible] Engineering News, New [illegible] 23-1t

TECHNICAL GRADUATE, [illegible] months' drafting; six months' shop experience, wishes [illegible] moderate salary. Address "[illegible] gineering News, New York. 23-1t

TECHNICAL GRADUATE, [illegible] drafting experience, seeks position [illegible] tural engineering line, [illegible] sary. Address "Z. B. [illegible] News, New York. 23-1t

Superintendents, Misc., etc.

ENGINEER and estimator with reinforced concrete and general contractor, desires change; college graduate. Address "B. B. 23," Engineering News, New York. 23-1t

Situations Open

WANTED—Estimator's assistant, a man thoroughly familiar with reading drawings, making detailed bills of material, figuring weights of machinery, etc. Address "G. C. 23," Engineering News, New York. 23-1t

WANTED—Experienced designer and detailer of reinforced concrete for railway work; permanent job; must have architectural experience. Address "H. C. 23," Engineering News, New York. 23-1t

Miscellaneous Wants

CIVIL ENGINEER AND SURVEYOR, with experience in municipal, railroad and tunnel construction, would like to meet partner along similar lines, with a view of entering into engineering and contracting business; have instruments and some capital. Address "K. B. 23," Engineering News, New York. 23-1t

FOR SALE

36-in. GAUGE FLAT CARS

20—Four wheel, steel underframe, 4ft. 8in. x 7ft. 2in. platform; 10 to 20 tons capacity.

CHEAP

HYDE BROTHERS & COMPANY
50 Church St., New York

FOR SALE

The rights for the sale of a much used, economical system of graphically

Charting Underground Pipes, Wires, etc.

may be obtained at a very reasonable cost. Designer of chart too busy otherwise to handle it commercially. A good opportunity for the right person to obtain the foundation of a profitable business. Apply, in first instance, "M. B. 23," care of Engineering News, New York.

CABLEWAYS

FOR SALE

Two Lidgerwood Cableways; traveling towers, 54 feet and 65 feet high; cables, 800 feet long; engines, 8" x 10"; double drum; moving gear, etc.

THE T. A. GILLESPIE COMPANY

800 Westinghouse Building Pittsburgh, Pa.